

THE VERENDRYE EXPLORATIONS

*The Gaultier Brother's Expedition
through
North & South Dakota, Wyoming, and Nebraska
in 1742-1743*

*Based on a Journal,
written by Francois Gaultier, Chevalier of the Verendrye, and his brother
Pierre Gaultier, documenting an Expedition to reach the Western Sea,
addressed to M. the Marquis of Beauharnois. 1742-43.*

EXPEDITION MEMBERS

Pierre Gaultier (Leader)
Francois Gaultier (Chevalier de la Verendrye, Diary Keeper)
Louis la Londette
A. Miotte.

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2020



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Final Years of a Trail Researcher

I am beginning to realize that I'm in the final years of my life, and definitely in my final years as a "trail pounder." Those trail slopes seem to have gotten much steeper in the past ten years! Many of the hikes I had planned for the future will not be realized. However, 35 years of solo camping and hiking have given me many wonderful memories and exciting adventures that I will cherish.

Those "steep slopes" also apply to my writing and research report production. It is hard for me to accept that there is more research to be done on these trails but my advancing years make it necessary for me to publish what I have at the current time and leave the remainder of the research to future generations.

With my final years starting to loom large, I've decided to produce as many reports on my trail research as time and energy permit. I apologize in advance for some incomplete results, or lack of thoroughness, that will be a natural part of this final effort. That is why I hope future generations will continue on and expand my research.

I still have more than one hundred trails to finish documenting and that will take the remainder of my life – even if I reduce the effort for new research. Documenting old trails has been one of the best journeys of my life and I wish I could live longer and do more research.

Steve F. Russell
Ames, Iowa

Inference in Historic Trail Research

Inference is a very important concept in all types of research from theoretical physics, to medicine, to historic trails. The skill of the researcher in understanding inference, properly applying it, and acknowledging its use, is of paramount importance. A researcher can never claim that the conclusions reached using inference are "absolute truth," and yet, this often happens in many fields of research.

“Evidence” > “Logic & Reasoning” > “Conclusions”

Conclusions reached by Inference are not Absolute Truth

The dictionary definition of inference is:

- a conclusion reached on the basis of evidence and reasoning.
- synonyms are: deduction, conclusion, reasoning, conjecture, speculation, a guess, presumption, assumption, supposition, reckoning, extrapolation.

Another dictionary definition for statistical inference is: "the theory, methods, and practice of forming judgments about the parameters of a population and the reliability of statistical relationships, typically on the basis of random sampling." The key term in all research inference is **"forming judgements."** It is the process of forming judgements that sometimes goes far astray in reporting research results. It is not uncommon for researchers to “create” unsubstantiated evidence (a.k.a., assumptions) to complete the “forming judgements” part of their work and their conclusions can be very misleading. It is incumbent on the researcher to avoid this behavior or, at least, to make it very clear what assumptions were made.

These definitions, however, do not give a full understanding of how inference is often applied. In historical research, the “evidence” is often sparse, or at best, fragmented, and no amount of “logic and reasoning” can make up for inadequate evidence. This results in “conclusions” that are often shaky, at best, or really wrong, at the worst.

Despite its importance, some researchers do not seem to fully understand the roll of inference in their research. For example, in medicine, we hear the term "statistical inference" which means to present research where the results are reported in terms of probability and statistics, and the reader is often left to make their own conclusions. This is not really “inference.” The conclusions reached by “statistical inference” are one step removed from actual inference and, thus, produce conclusions that are even more speculative, and possibly misguided.

In historical trail research, inference plays a big roll in trying to understand the history of the trail as well as trying to accurately determine its location on a map and documenting associated landmarks and campsites. This is especially true when original-source historical documentation is limited.

In my research, I acknowledge my use of inference to produce my results to the best of my ability, and do not claim to have produced "absolute truth."

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2010

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THE VERENDRYE EXPLORATIONS 1742-1743

Introduction

Pierre Gaultier de Varennes, sieur de La Vérendrye (Pierre Gaultier Sr.), and his four sons, Jean-Baptiste Gaultier, Pierre Gaultier Jr., Francois Gaultier, and Louis-Joseph Gaultier, were instrumental in the exploration of central Canada and portions of the states in North Dakota, South Dakota¹, Wyoming, and Nebraska. They were French Canadians because France controlled Canada until 1763, the end of the French and Indian War², after which, England gained control.

The purpose of the 'Verendrye' Expedition of 1742-1743, was to find a way to travel westward from the Mandan Villages of North Dakota to the Western Sea (Pacific Ocean). They were unsuccessful because the Snake River Indians of Idaho and western Wyoming, primarily the eastern Shoshoni, were hostile to invaders of their territory and the plains tribes refused any requests to guide the Gaultiers through Snake Indian country. They appeared to have explored westward, to the east face of the Big Horn Mountains, before returning to the Mandan Villages of North Dakota.

Some of the journal accounts I use in my trail research seem very credible, while others are hard to believe. In the disciplines of Chemistry, Engineering, and other sciences, we often use the word "dry lab" to describe an account (or result) that was written without actually performing the task – or only minimally performing it. An example of a credible account are the excellent journals of the Lewis and Clark Expedition. Other credible accounts exist in the diaries kept by the Oregon Trail Pioneers.

But, there are other journals which seem to be full of hyperbole and fanciful creations. The Verendrye Exploration journal of 1742-1743, for me, seems to fall somewhere between credible and hyperbole. I do believe they attempted an expedition to the west of the Mandan villages but their painfully slow pace and lack of a sense of urgency make me wonder just how much was factually accomplished. Urgency was a hallmark of North American explorations as exhibited by Friar Silvestre Vélez de Escalante (1776), Lewis & Clark (1804-1806), Thompson (1809-1812), Hunt (1811-1812), Stuart (1812-1813), Mackenzie (1819), Ogden (1825), Smith (1826-1827), Armijo (1829), Fremont (1844), and many others. It is almost unimaginable that the Verendrye Expedition would be so 'poky.' But, I've found no other information on which to base this research, but their journal, lead plate, Burpee map 1927, and the Lapie map 1821.

It seems reasonable that they encountered the Indian Tribes mentioned, but the tribal names given in the Journal are totally different from the names later used – so we cannot easily correlate them. It also seems reasonable that they encountered the tribes we now call Mandan, Cheyenne, Crow, Sioux, and Arikara.

I have been unable to discover any maps of the expedition. However, a short segment of the route they followed between River Deep, a tributary of the River Rouge, and Fort Mandanne, appear to be shown on the 1821 Lapie map [1], 78 years later. The only information from the journal written by Francois Gaultier, the Chevalier de la Verendrye, is available from the American Journeys Document AJ-109 [2]. There are also other sources of English translations of this journal but [2] is the one I used.

The next sections explain, respectively: 1) the members of the Gaultier de La Vérendrye family, 2) the inscriptions of the lead plate found in 1913, near Fort Pierre, and 3) my research for the history and location of the route (the research includes all the significant details from the Francois Gaultier journal). The final sections show, respectively: 1) Research, 2) APPENDIX A Historic Trail Discovery and Research Methodology, 3) APPENDIX B GPS waypoints, 4) APPENDIX C French Journal and English Translation, 5) APPENDIX D Research and historical maps of the expedition.

¹ They passed through the extreme southeast part of Montana but it is an insignificant part of the route.

² By 1759, the British had defeated the French and the French and Indian War (part of the broader conflict called the Seven Years War) ended soon after. In 1763, France ceded Canada to England through the Treaty of Paris. England now controlled all of Canada.

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Gaultier De La Vérendrye Family Members

The records of the explorations of the sons of Pierre Gaultier de Varennes, sieur de La Vérendrye are somewhat confusing and the absolute identification of "who did what explorations" is not obtainable. Various authors and sources have different opinions.

For the expedition of 1742-1743, I have used the inscriptions on the lead plate at Fort Pierre to identify Pierre Gaultier (Jr.) as the Leader and Francois Gaultier as the Chevalier de la Verendrye, and Diary Keeper. Other authors identify Louis-Joseph Gaultier as the Leader, Chevalier de la Verendrye, and Diary Keeper.

Father:

Pierre Gaultier de Varennes, sieur de La Vérendrye³ (17 November 1685 – 5 December 1749)

Pierre Gaultier of Varennes, Lord of the Vérendrye

Pierre Gaultier de Varennes, sieur de La Vérendrye was a French Canadian military officer, fur trader and explorer. In the 1730s, he and his four sons explored the area west of Lake Superior and established trading posts there.

https://en.wikipedia.org/wiki/Pierre_Gaultier_de_Varennes,_sieur_de_La_V%C3%A9rendrye

Sons:

Jean-Baptiste Gaultier

Jean-Baptiste Gaultier de La Vérendrye (September 3, 1713 – June 6, 1736)

Jean-Baptiste Gaultier of the Vérendrye

Killed by the Sioux.

https://en.wikipedia.org/wiki/Jean_Baptiste_de_La_V%C3%A9rendrye

Pierre⁴ Gaultier

Pierre Gaultier de La Vérendrye de Boumois (December 1, 1714 – September 13, 1755)

Pierre Gaultier of the Vérendrye of Boumois

1742-1743 Expedition Leader

https://en.wikipedia.org/wiki/Pierre_Gaultier_de_La_V%C3%A9rendrye

Francois Gaultier

Francois Gaultier de La Vérendrye (1715 – July 31, 1794)

Francois Gaultier of the Vérendrye

1742-1743 Expedition, Chevalier⁵ de la Vérendrye⁶, Diary Keeper

https://en.wikipedia.org/wiki/Fran%C3%A7ois_de_La_V%C3%A9rendrye

Louis-Joseph Gaultier

Louis-Joseph Gaultier de La Vérendrye (November 9, 1717 – November 15, 1761)

Louis-Joseph Gaultier of the Vérendrye

(the 2nd Chevalier de la Vérendrye)

https://en.wikipedia.org/wiki/Louis-Joseph_Gaultier_de_La_V%C3%A9rendrye

³ The alternate usage is LaVerendrie.

⁴ Latin is Petrus, and English is Peter.

⁵ A Knight; a chivalrous man; a member of certain orders of knighthood or of modern French orders such as the Legion of Honor.

⁶ Alternate usage is Chevalyet de Lave, and also Chevalyet de Lar.

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Direct Lead-Plate Transcriptions and Translations⁷

A lead plate, inscribed and buried by the expedition was found near Fort Pierre, South Dakota in 1913 and preserved for the historical record. It is important to record exactly what is written on the lead plate and then translate it to modern English. It provides key information about the identity of the members of the Verendrye Expedition.

PLATE - FRONT SIDE INSCRIPTION

Fleur de Lis Seal

ANNO *XXVI * REGNI LYDOVICI XV PROREGE
ILLUSTRISSIMO DOMINO * DOMINO MARCHIONE
DE BEAUVHARNOIS M-D-CCXXXI
PETRVS GAVETIER DE LAVERENDRIE POSVIT

Front Inscription Translation, Latin to English, SFR:

Year 26 of the Reign of King Louis the 15th; Most Illustrious Lord; Lord Marquis of Beauharnois 1741; Placed by Pierre Gautier of LaVerendrie.

PLATE - BACK SIDE INSCRIPTION

POSE PAR LE
chevalyet de lar
t6 ?t Louy la Londitte
A Migtte
le 30 de marse 1743

Back Inscription Translation, Latin to English, SFR:

Placed by the Chevalyet de Lar ; (t6 ?t); Louis La Londitte; A. Migtte; March 30, 1743

Modern Language Lead-Plate Translations

Front Side – Year 26 of the Reign of King Louis the 15th; Most Illustrious Lord; Lord Marquis of Beauharnois 1741; Placed by Pierre Gaultier of La Vérendrye⁸.

Back Side – Placed by the Chevalier of La Verendrye⁹; (?); Louis la Londette; A. Miotte; March 30, 1743.

⁷ Original spellings are used in this monograph. In current literature, some of the spellings have been changed from the actual plate inscription.

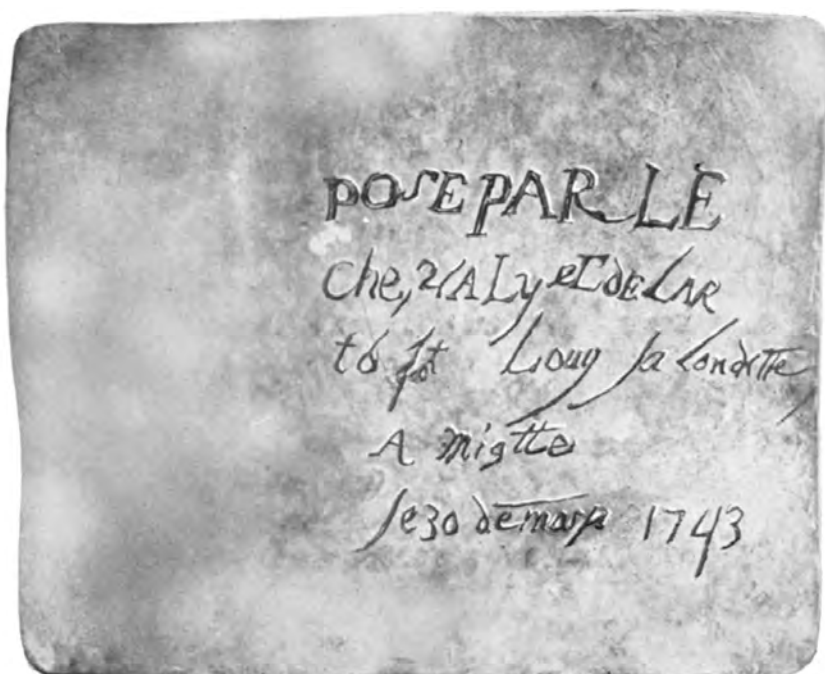
⁸ This is Pierre Gaultier Jr., who I think was the expedition leader.

⁹ This is, most likely, Francois Gaultier, see Burpe 1922 [3]. Several sources think this is Louis-Joseph Gaultier.

Lead Plate Images



Lead Plate Front Side



Lead Plate Back Side

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Research

Based upon the few geographic clues in the Journal. I believe that the Verendrye Expedition followed the Little Missouri, Belle Fourche, and Powder Rivers to the Big Horn Mountains, and then returned to the Mandan Villages via the Platte, White, and Missouri Rivers. I was pleased to read the article by Grace Flandreau [4], which contained a map with a route similar to mine.

Their descriptions of the route they traveled are so sparse, that it is difficult to accurately establish the westbound, or eastbound, routes.

They reported on the ten different bands or tribes of plains Indians that they met, and found them to be very friendly and helpful – except for one incident. My effort to provide a research map on their route was based on the following:

1. My knowledge of the various Indian and explorer routes the I have researched. In particular, the route of Wilson Hunt and the Astorians in 1811-1812, who were trying to accomplish the same goal as the Gaultier de La Vérendryes – and Hunt succeeded – 70 years later.
2. The topography of the area of North and South Dakota, Wyoming, and Nebraska.
3. My interpretation of the Verendrye Expedition Journal.

Rate of Travel

An important parameter in the use of historical trail journals is the rate-of-travel of the expedition. In the case of the Verendrye Expedition, the rate of travel is difficult to determine so the estimates are crude, and of only limited usefulness in research.

The normal rate of travel for the horses in most expeditions is about 3.5 miles-per-hour. Accounting for all activities not related to actual travel, the number of hours per day of travel is typically 6-10 hours, resulting in 21-35 miles per day. Travel on the Oregon Trail was about 15 miles per day because of the heavy wagons and need, by the families, to stop and rest.

Probably the best estimate of the typical rate of travel for the expedition is the trip from Fort La Reine (April 29th) to the Mandan Villages (May 29th), a distance of approximately 325 miles in 31 days, or a rate of 10.48 miles per day. Although this is on the very low end of the typical scale of historical expeditions, it seems like a reasonable estimate.

Westbound, they went from the Mandan Villages (July 23rd) to the Big Horn Mountains (January 12th), a distance of approximately 512 miles in 174 days, or a rate of 2.95 miles per day. This painfully slow rate is be due to their frequent, and extended, stops. If they were on a discovery quest, why did they linger for weeks at a time?

Eastbound they went from the Big Horn Mountains (approximately February 9th) back to the Mandan Villages (May 18th), a distance of approximately 590 miles in 99 days, or a rate of 5.96 miles per day. They also had frequent, and extended, stops on this leg of their journey.

We see that their rate of travel varied from 10.48 to 5.96 to 2.95 miles-per-day. If we assume 20 miles-per-day for a typical expedition, it would take 55 days to travel their total distance of 1100 miles. The Verendrye Expedition took 354 days to make the trip. The irregular travel schedule of the expedition makes it impossible to use travel days as an estimate of most of the distances. However, when possible, I used a travel rate of 10.48 miles-per-day.

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Landmarks, Travel Information, and Indian Tribes Encountered by the Verendryes¹⁰

(In order of Mention in the Journal)

1. April 29, 1741, left Fort La Reine [Fort of the Queen]
2. May 19, 1742 arrived among the Mandan
3. remained until July 23rd, waiting for the Gens des Chavaux
4. Jul 23, 1742, left the Mandan [Mandan Villages, ND]
5. walked for 20 days west-southwest [this would make the end of their walk on Aug 12, but they stopped on Aug 2, only 10 days later]
6. Aug 2, 1742, reached the Mountain¹¹ of the Gens des Chavaux [Horse People (Cheyenne)]
7. we set to work to build a small house in order to await the first savages we might discover [the statement implies that they wanted to meet any Tribe, but they were hoping to meet the Horse People (Cheyenne)]
8. Sep 10, 1742, only one Mandan Indian remained [apparently, they waited 31 days for any tribal people to arrive – but without success. They had only one Mandan guide left]
9. Sep 14, 1742, saw smoke to the south-southwest, sent a Frenchman with our Mandan [to investigate]
10. Sep 18, 1742, went to the village of the Beaux Hommes [Fine Men (Crows)]
11. remained with the Beaux Hommes for 21 days
12. Oct 9, 1742, left the village of the Beaux Hommes
13. our guides led us south-southwest
14. on the second day [Oct 11, 1742], came to a village of the tribe of the Petits Renards [Little Fox People, unknown]
15. set out on our march and, on the second day, came to a very populous village of the same tribe [Petits Renards]
16. the (Petits Renards) conducted us to a village of the Pioya [identity unknown]
17. Oct 15, 1742, arrived at a large village of the Pioya.
18. we continued to move in a southwesterly direction
19. Oct 17, 1742, came to a large village of the same tribe (Pioya)
20. all journeyed together
21. Oct 19, arrived at a village of the Gens des Chevaux
22. by means of (giving) presents, the village was persuaded to sent out and go to the Gens de l'Arc
23. continued southwest
24. Nov 18, 1742, came to a very populous village of the Gens de la Belle Riviere [People of the Beautiful River (unidentified)]
25. all went together to the southwest
26. Nov 21, 1742, discovered a very large village of the Gens de l'Arc [People of the Bow (Sioux)]
27. The Expedition attached itself to the Sioux, and in particular, to the Sioux chief
28. They engage in discussions.¹²
29. continued our march, sometimes south-southwest, sometimes northwest (southwest?), our troop

¹⁰ Some paraphrasing is used.

¹¹ This is Table Mountain in extreme northwest South Dakota.

¹² They had long discussions about going to the Pacific Ocean and about white people there. The chief stated they would march toward the high mountains which are near the sea (perhaps the Sierra Nevada Mountains). Its not clear that there is any specific range of mountains where you can view the Pacific Ocean. Francois states that his ardour was considerably cooled for a sea already known. This probably is the reason they would soon turn around and go back.

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- increasing all the time through the addition of several village of different tribes.¹³
30. Jan 1, 1743¹⁴ we found ourselves in sight of the mountains [still with the Sioux]
 31. we continued our march until Jan 8 [1743]
 32. Jan 9, 1743, left the village [the large village of 2,000 fighting men]
 33. Jan 12, arrived at the mountains [Big Horn Range]¹⁵
 34. we are near the main village of the **Gens du Serpent** [**Snake People (Shoshone)**] and our scouts inform us they have made their escape and have abandoned their lodges and part of their property
 35. [The party of men, with Francois and the Sioux chief, refuse to go any further out of fear]
 36. they then decided to return. Francois expresses his mortification at not being able to climb the mountains [Sierra Nevada] as he had wished.
 37. marched in company with the Chief of the Gens de l'Arc
 38. Francois notices that Louis la Londette and A. Miotte are missing. He searches for them and finds them at an island, letting their horses feed.
 39. fifteen Indian men approach to attack the three expedition men. They fired guns at the attackers who quickly retreat. They remained in hiding until nightfall.
 40. they continued their route at random [random movements to avoid the attackers]
 41. Feb 9, 1743, the second day after they lost their way, they arrived at the village of the Chief of the Gens de l'Arc, two full feet of snow had fallen
 42. they continued travel east-southeast with the Sioux.
 43. Mar 1, 1743, decided to return to Fort La Reine
 44. Mar 15, 1743 arrived among the **Gens de la Petite Cerise** [**People of the little Cherry, Arikara**], two days march from their Fort on the Missouri¹⁶
 45. Mar 19, 1743 arrived at the fort of the Gens de la Petite Cerise [Fort Pierre]
 46. Mar 30, 1743, buried the lead plate with inscription [near Fort Pierre]
 47. April, prepared to leave for the Mandan [Mandan Villages, ND]
 48. Apr 2, 1743, departed the Fort of the Gens de la Petite Cerise [Fort Pierre]
 49. Apr 9, 1743 came to a village of 25 lodges of the Gens de la Fleche Coolee [People of the Stick Arrow, Prairie Sioux]
 50. Apr 10, 1743, resumed our journey
 51. May 18, 1743, arrived at the Mandan [Mandan Villages, ND]¹⁷
 52. May 27, 1843, passed by the Fort la Butte.
 53. caught up to the **Assiniboin** at their encampment [**Assiniboine Tribe**]
 54. May 31, 1843, scouts spied thirty Sioux waiting in ambush on the road
 55. Jun 2, 1843, reached the village near the mountain [location unknown]
 56. remained at the village until June 20, 1743
 57. Jul 2, 1843, arrived at Fort La Reine

¹³ This statement implies that all the tribes of the area southwest, from the Mandans to the Big Horns were friendly to each other. The Journal later states that this "troop" had 2,000 fighting men with their families.

¹⁴ At this point, they had spent 41 days with the Sioux. Very little of those days had been spent traveling. It appears that they thought the Pacific Ocean could be seen from the crest of the Big Horn Mountains. They apparently did not know that they were still over 1,200 miles from the coast.

¹⁵ The journal contains the following comments: "I was greatly mortified not to be able to climb the mountains I had wished. We then decided to return." Those mountains are the Sierra Nevada, still over a 1,200 miles away to the west. They must not have known how far they had yet to travel. Even at a rate of 15 miles-per-day, they were still at least 80 days away.

¹⁶ The Arikara at Fort Pierre.

¹⁷ It took them 39 days to travel, at most, 185 miles. This trip should have taken them less than 18 days.

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Indian Tribes in Order of Contact

Mandan (Mandan)
Gens des Chevaux (People of the Horses, Cheyenne)
Beaux Hommes (Two Men, Fine Men, Crow)
Petits Renards (Little Fox People, Unknown)
Pioya (unknown, possibly Kiowa)
Gens de la Belle Riviere (People of the Beautiful River, Unknown)
Gens de l'Arc (People of the Bow, Sioux)
Gens du Serpent (Serpent People, Snake River Indians, Shoshoni)
Gens de la Petite Cerise (People of the Little Cherry, Arikara)
Gens de la Fleche Collee (People of the Stick Arrow, Prairie Sioux)
Mandan (Mandan)

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Modern Description of the Route

The identification of the Indian tribes encountered are based on this hypothetical route and historic government records of the tribes that occupied that areas covered by the expedition route. Here is a description of the route combining my route estimate along with the Verendrye Journal.

1. They left Fort le Reine (Fort of the Queen) and followed the Assiniboine River westward and southward to the mouth of the Deep River.
2. From the Deep River, they went directly cross-country to the Mandan Villages.
3. From the Mandan Villages, they went in a south-southwest direction crossing the Heart and arriving at the Cannonball River near the mouth of Cedar Creek.
4. They traveled up Cedar Creek to near Hettenger, ND and then crossed southwest to the North Fork of the Grand River and followed it westward to Bowman-Haley Lake.
5. From Bowman-Haley Lake, they went southwest and followed Crooked Creek westward to near Table Mountain and then passed by Karinen, SD and north of Ladner, SD to reach the Little Missouri River, near the mouth of Kimble Creek.
6. They traveled southward up the Little Missouri River, past Camp Crook, SD, and to Alzada, MT.
7. They remained on the Little Missouri, past Alzada, until reaching its headwaters near Oshoto, WY, where they crossed the divide and down Miller Cr. to the Belle Fourche River.
8. They traveled southward up the Belle Fourche River, passing west of Moorcroft, Wy, to the mouth of Mud Spring Cr.
9. Their route went westward up Mud Spring Cr., past Pumpkin Buttes, and to the Powder River near where Wyoming State Highway 191 crosses.
10. They continued westward along the Powder River to Kaycee, Wy.
11. At Kaycee, they followed the Middle Fork of the Powder River to near Barnum, Wyo.
12. At Barnum, they had reached the Big Horn Range of mountains but could go no further westward, toward the Snake River Indian country, because they were unable to find anyone willing to guide them into hostile Shoshoni country.
13. They turned southward at Barnum, WY and traveled south-southeast to Casper Wyoming¹⁸. At Casper, they were able to follow the Platte River eastward to Douglas, WY.
14. At Douglas, they left the Platte R. and continued east to Lusk, WY, where they reached the Niobrara River.
15. Following a short distance down the Niobrara R., they crossed over to the White River at Van Tassel, WY.
16. They followed down the White River, passing Fort Robinson, NB, the Pine Ridge Indian Reservation, the Badlands National Park, and to Belvidere, SD. At Belvidere, they crossed over to the Bad River and followed it to Fort Pierre on the Missouri River. It is here that they buried the Verendrye lead plate on 30 March 1743.
17. From Fort Pierre, they went up the Missouri River and back to the Mandan Villages.

¹⁸ Another possible route for them to travel was down the Cheyenne River to the Bad River. I chose the Platte, White, and Bad Rivers. I chose the route I did because of the water sources and the comment about la Londette and Miotte feeding their horses on an island - more likely on the Platte River.

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References:

[1] Journal of the Expedition of the Chevalier de La Vérendrye and One of His Brothers to Reach the Western Sea, Addressed to M. the Marquis de Beauharnois, 1742-43, François de La Vérendrye (1715-1794), American Journeys Document AJ-109

Burpee, Lawrence J. (editor). Journals and Letters of Pierre Gaultier de Varennes de La Vérendrye and His Sons, with Correspondence between the Governors of Canada and the French Court, Touching the Search for the Western Sea. (Toronto: The Champlain Society, 1927). Pages 406-432.

Journals and Letters of Pierre Gaultier, de Varennes, de La Verendrye, and his Sons, With Correspondence Between The Governors of Canada and The French Court, Touching the Search for the Western Sea, Edited With Introduction and Notes By Lawrence J. Burpee (1873-1946), Toronto, The Champlain Society, 1927. Also published as Journals of La Vérendrye, New York: Greenwood Press, 1968 (xxiii, 548p.).

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APPENDIX A.

Historic Trail Discovery and Research Methodology

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Introduction

This brief monograph addresses the methodology I have developed for finding historic trails and wagon roads. Trying to describe a process that has been developed using science, inference, and intuition is difficult because it involves so many variables and perturbations. It is similar to a basketball coach writing a monograph on the process of coaching during a game. Some people question if it is even possible to develop such a methodology, but finding actual old worn trail tread is the proof that it works. In this monograph, the word 'trail' means the erosion trace of an historic trail or historic wagon road.

Trails and roads are transportation routes that people use to get from one point to another in the most practical way possible. The main criteria for trail location choices have always been directionality, water, food, shelter, safety, ease of travel, and availability. These are the same criteria that have been used by all travelers for uncounted millennia.

Major Criteria for Trail Location

Directionality	A traveler is interested in getting from "point-A" to "point-B" in the most effective way possible. Thus, trails have a directionality characteristic. This means the trail connects the points in the shortest practical distance, given obstacles and availability constraints. The trail may meander but it tries to keep close to a direct path.
Water	Essential for all life, a trail must pass by water sources frequently enough to serve the needs of people and livestock. Most of the time, a water source every 3-15 miles is acceptable although we know distances of 40-70 miles are a difficult reality for some trails..
Food	Also essential for life, the area traversed by a trail must provide plant and animal food sources adequate for livestock and people.
Shelter	Shelter from adverse weather is highly desirable but often scarce. Caves, cliffs, and tree-branch shelters can serve the purpose –when available. People often transport their shelter with them as they travel. For aboriginal people and early fir trappers, it was often animal hides. In modern times, it is the nylon tent and/or warm rain gear.
Safety	For aboriginal people, this was a key element in the location of trails. Safety from enemies, dangerous animals, cliffs, steep hillsides, etc, were paramount.
Ease of Travel	If a trail is well located for ease of travel, energy requirements, and food requirements; 'wear and tear' and stress and trauma are reduced. It is a plus if a trail can be located on reasonable slopes/ grades.
Availability	A good trail is available during most months of the year. The location must take into account snow, rain, tree dead-fall, and flooding streams and rivers.

Trail, Road, and Highway Construction, Induced Erosion Characteristics

A knowledge of the historical progression of trail-use helps greatly with the discovery of true trails. For example, a trail route such as the Ice Age Trail from Canada to the southern United States was traveled thousands of years ago by people on foot and with whatever domesticated animals (most often

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dogs) they had available. These migration routes can be crudely estimated by campsites but any trail erosion trace has long disappeared due to erosion from rain, snow melt, fire runoff, etc.

In the Pacific Northwest, trails were worn by human foot traffic and dogs before the arrival of the horse – about 1730. Lewis & Clark followed well-worn Indian trails for most of their journey across the mountains (excepting Lost Trail Pass). As horse herds increased their number, pack horses replaced the dog travois, especially in brushy, mountainous, timbered areas. The increased use of pack horses also increased the depth and braid of existing trails. It is the horse trail erosion tread that we find in the mountains today.

Wagon roads replaced horse trails in some locations but, for the most part, the wagon roads were separate because (with notable exceptions) they required a route that was less steep; with more gentle hillside slopes. Constructed wagon roads such as the Lander Road of the Oregon-California Trail and the Lewiston & Virginia City Wagon Road (Bird Truax Trail) in north-central Idaho, were surveyed to an acceptable wagon road grade.

The era of mechanized road construction and western agriculture brought about the destruction of the fundamental nature of the historic horse trail. Single-lane dirt roads covered over some of the trails and were followed by paved roads. Travelers of modern paved roads are usually unaware that they are driving over what was once a major Indian Trail – less than two centuries ago. One interesting use for old trails was to turn them into ditches for agriculture and mining. Sometimes they were located in the right place and had a slope that accommodated use as a water ditch.

The construction characteristics and erosion characteristics of a trail give powerful clues as to its origin. Constructed trails and wagon roads can be quite different from trails pioneered by aboriginal people and emigrants. Erosion trails by horses and horse travois are significantly different from erosion trails caused by wagons.

Trail Use Identification

One of the most difficult tasks in historic trail discovery and documentation is to determine its origin, era of use, and type of use. A trail can come into use by many different means. Science and art must both be used to properly identify them. Here are some trail types.

-ANIMALS; Horses, Cattle, Sheep, Buffalo, Elk, Moose, Deer, etc.

-HUMAN FOOT TRAFFIC; hiking, camping, hunting, etc.

-CONSTRUCTED TRAILS; Silver and Gold Mining, hunting, National Forests, National Parks, Recreation, Federal and State Government.

Indian Trails (Horse Trails) For the most part, these trails travel as directly as possible between two points, even when they had to go through difficult terrain. They tend to stay on ridges and other high points and almost never travel in the brush and windfall bottoms of rivers and creeks. They also tend, when possible, to be located in the most sunny areas of travel. This makes the trail usable earlier in the spring and later in the fall. For example, the trail will be located near the crown of the ridge but on the sunniest edge of it. These main trails do not ‘dip and dive’ off a ridge to access each water source or meadow of horse feed. The main trail stays on the ridge and travelers access these places with a side trail. This is the most energy efficient way of travel and energy efficiency was, and still is, very important. They will avoid locations that may expose them to enemy ambush. One significant feature of Indian trails in steep areas is the nature of the trail switchbacks. The trail is serpentine steeply up the hill and the switchbacks are only 3-5 time the length of a horse (30-50 feet). When a trail has long, shallow-slope switchbacks, it is not an Indian trail.

Cattle Trails Cattle create grazing trails and patterns on hillsides where there may be a horse trail. This can create a difficult separation problem unless a vantage point can be gained where the weaving

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cattle pattern can be distinguished from the 'straight-line' horse trail. Cattle also produce a radial pattern of trails around a water source or salt block. Historic horse trails do not. Cattle were often driven on historic trails and create erosion patterns that are difficult to distinguish from horse trails. In the mountains, cattle do a lot of single-file traveling, just as saddle horses do. I employ a variety of methods to eliminate cattle trails. Heavy cattle grazing over decades can obliterate a major historic trail.

Sheep Trails A stock driveway used by sheep can be 20 or more feet wide and a very well beaten path. It often looks more like a road than a trail. It does not have the deep erosion patterns created by horses and cattle. Historic trails can be rapidly destroyed by sheep because they graze the plants so close to the ground that significant erosion is created.

National Forest Trails These trails were originally designed for horse and foot traffic but now may have mountain bike, motorcycle, or ATV traffic. Many of these trails were converted Indian trails with reroutes and longer switchbacks constructed where needed. Over the last 100 years, the historic nature of the original Indian trail has been lost. Forest trails were constructed, or modified, to create a more shallow grade and reduce erosion. Maps of these trails exist back to at least 1911 which helps separate them from Indian trails. Forest trails have a 'constructed' look about them that is different from pioneered trails.

National Park Trails These trails, for the most part, are constructed for tourist hiking and are of recent vintage. My research work up to this time has not included areas of National Parks.

Mining Trails Gold and silver miners originally used the Indian trails for explorations and travel so some historic trails have been greatly impacted by mining activity. This is especially true for the Southern Nez Perces Trail in north-central Idaho. As mines were established and travel route changes were needed, the miners would abandon some sections of the Indian trail and construct their own trails. They had different needs and objectives. Because miners and Indians traveled the same way with horses and mules, distinguishing the two can be a challenge. In these areas, it is helpful to have old journals and knowledge of various mine locations to separate them out.

Hunting Trails In high-traffic hunting areas, hunters often develop trails from camping areas to water sources and meadows. These are often horse trails and, depending on their age, may be difficult to distinguish from historical trails. Fortunately, they can be distinguished by the way they link camping areas with known water sources and hunting meadows. On the Lolo Trail corridor in Idaho, they are usually less than five miles in length and most are less than two miles in length. They also tend to connect with National Forest trails so a good trail map is essential to separate the two. Additionally, maintained National Forest trails are brushed out to specific standards which can distinguish them from hunting trails, which tend to have brush.

Livestock Driveways These were large trails used to drive cattle and sheep from winter pastures to summer pastures and from pastures to railheads. They were characterized by wide beaten paths and the directionality associated with pastures and railheads.

Wagon Roads In frangible soil types, old wagon roads tend to have a central swale created by the horse hooves and often, there are no discernable wagon wheel ruts. Where very rocky soil and hard surfaces exist, the wheel ruts are easily discernable.

Historical Documentation of Trails

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Historical documentation of western trails is often available in the form of government maps, fur trader maps, explorer and pioneer journals, and history books. Original sources are essential for the best research quality. Second, or third-hand information can be degraded in quality caused by editing, bias, gross error and general lack of accurate knowledge. Even high-quality journals like those produced by Lewis & Clark and the Corps of Discovery can be interpreted in different ways and subject to editorial changes.

I rely mostly on original explorer journals and their maps as well as the Government Land Office (GLO) Plat Surveys. Of course, both have occasional errors but their first-hand accounts usually produce good information to locate the erosion traces.

Original Research Independence

The hallmark of my research has been to use only original documents dating, as near as possible, to the original dates of use of a trail or wagon road. This avoids the bias of using previous research. This is especially true for derivative books. After I apply my research methods and have determined trail and road locations as accurately as possible, I will then compare previous research results with my own. Most of the time they do not influence my results but, occasionally, I discover new information or an error in my research which I correct.

Anecdotal information and published oral histories have frequently proven to be inaccurate to the point where I place little confidence in them. In nearly all cases, the information has been passed down over a 100+ year span between the original source and today's generation.

Trail Dating and Route Evolution

Whenever reporting on trail research, it is essential to assign a correct date as to the location of the trail – at that time. The location of some portions of a trail will usually evolve over time and the reader and future researchers need to know the date that applies to whatever trail documentation is being provided. It is ideal if, when creating a map, each branch of the trail can be labeled with an applicable date. This evolution was never more abundantly clear than in the evolution of the various California and Oregon immigrant trails. There are literally hundreds of both major and minor branches in that trail system.

Ground Truthing

Hiking and finding the erosion trace of an old trail, and documenting it with a precision GPS, is the best way to insure high-quality research on an historic trail. Satellite, aerial, and ground photos can be very helpful and may produce good results in some cases, but they are no substitute for ground truthing. Various types of old maps can be used for approximation but accuracy is poor by modern standards. The original plat surveys by the Government Land Office (GLO), now called the Bureau of Land Management (BLM), offer good accuracy, but only on section-line intersections with trails. The GLO maps can be quite inaccurate within section interiors. It is best to get the information directly from the hand-written survey notes.

Experience, Intuition, and Dumb Luck

There is no amount of written information that is an adequate substitute for experience, inference, and intuition, when it comes to finding old trails. Trail location is so dependent on use, topography, vegetation, water, and other factors that there are unique aspects to each trail. Much trial and error is involved until this experience is gained. Last, but not least, is the element of 'dumb luck.' It happens when you are hiking along and literally stumble into the erosion trace of an old trail where you

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never expected it to be.

Revision and Additional Information

I will try to revise this document at new experiences point to new directions in research. I hope this information will be valuable to later generations of trail researchers.

Steve F. Russell

Ames, Iowa

April 4, 2014

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Appendix B.

GPS Waypoints for the Verendrye Expedition Route, Steve F. Russell

Viewing Attachments in Adobe Acrobat

These following waypoints are also provided in separate attached files in the following GIS formats: .GPX and .CSV. To access these embedded attachments in Adobe Acrobat, use the main menu and choose: **View > Navigation Panels > Attachments**. You can save the attachments to your computer from the window displayed.

The following waypoints are in order of their journey westward from Fort La Reine to the Big Horn Mountains and return to the Mandan Villages.

The Format is: Waypoint Name, Latitude, Longitude.

V10001, 49.95142, -98.32755	V10036, 49.77404, -98.48393	V10071, 49.76085, -98.76254
V10002, 49.95142, -98.33133	V10037, 49.76883, -98.47844	V10072, 49.75919, -98.76580
V10003, 49.95087, -98.33648	V10038, 49.76284, -98.47741	V10073, 49.75264, -98.77267
V10004, 49.94944, -98.33957	V10039, 49.75830, -98.48222	V10074, 49.74987, -98.77868
V10005, 49.94281, -98.34678	V10040, 49.75896, -98.48925	V10075, 49.74676, -98.78726
V10006, 49.94027, -98.34849	V10041, 49.75930, -98.49698	V10076, 49.73966, -98.80408
V10007, 49.93364, -98.35536	V10042, 49.75586, -98.50779	V10077, 49.73867, -98.80820
V10008, 49.93066, -98.35999	V10043, 49.75974, -98.51329	V10078, 49.73634, -98.81387
V10009, 49.92856, -98.36566	V10044, 49.76905, -98.52805	V10079, 49.73367, -98.82228
V10010, 49.92115, -98.38059	V10045, 49.77050, -98.53389	V10080, 49.72990, -98.83052
V10011, 49.91706, -98.38626	V10046, 49.77349, -98.54367	V10081, 49.72657, -98.83670
V10012, 49.91540, -98.39021	V10047, 49.77238, -98.55054	V10082, 49.72280, -98.84253
V10013, 49.91319, -98.39415	V10048, 49.77016, -98.55517	V10083, 49.71947, -98.84700
V10014, 49.90966, -98.39965	V10049, 49.76761, -98.56599	V10084, 49.71581, -98.85300
V10015, 49.90269, -98.40943	V10050, 49.76595, -98.57028	V10085, 49.70859, -98.86691
V10016, 49.90015, -98.41218	V10051, 49.76418, -98.58435	V10086, 49.70282, -98.87343
V10017, 49.89661, -98.41647	V10052, 49.76196, -98.58985	V10087, 49.70160, -98.88425
V10018, 49.89340, -98.41990	V10053, 49.76063, -98.59740	V10088, 49.70337, -98.89575
V10019, 49.88787, -98.42179	V10054, 49.76063, -98.60701	V10089, 49.70604, -98.90330
V10020, 49.88046, -98.42248	V10055, 49.76107, -98.61302	V10090, 49.70737, -98.91068
V10021, 49.87604, -98.42557	V10056, 49.76018, -98.62332	V10091, 49.71514, -98.92888
V10022, 49.87261, -98.43312	V10057, 49.76085, -98.62864	V10092, 49.72002, -98.93609
V10023, 49.86818, -98.44119	V10058, 49.76318, -98.63826	V10093, 49.72346, -98.94313
V10024, 49.86464, -98.45578	V10059, 49.76540, -98.64529	V10094, 49.72435, -98.95308
V10025, 49.85479, -98.46951	V10060, 49.76839, -98.65439	V10095, 49.72435, -98.96304
V10026, 49.84893, -98.47260	V10061, 49.76972, -98.66212	V10096, 49.72313, -98.98398
V10027, 49.84383, -98.47363	V10062, 49.77005, -98.67276	V10097, 49.72213, -98.99051
V10028, 49.83476, -98.47192	V10063, 49.76883, -98.68340	V10098, 49.72213, -98.99978
V10029, 49.82789, -98.47003	V10064, 49.76584, -98.70246	V10099, 49.72147, -99.01076
V10030, 49.81925, -98.47260	V10065, 49.76207, -98.71447	V10100, 49.72014, -99.02158
V10031, 49.81538, -98.48668	V10066, 49.75763, -98.71962	V10101, 49.71658, -99.03256
V10032, 49.80962, -98.49355	V10067, 49.75164, -98.72546	V10102, 49.71114, -99.03909
V10033, 49.79976, -98.49526	V10068, 49.76406, -98.73422	V10103, 49.70704, -99.04372
V10034, 49.79189, -98.49286	V10069, 49.76373, -98.74589	V10104, 49.70337, -99.05196
V10035, 49.78092, -98.48857	V10070, 49.76318, -98.75481	V10105, 49.70182, -99.06775

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V10106, 49.70027, -99.08904	V10156, 49.64955, -99.59297	V10206, 49.49191, -99.94797
V10107, 49.70182, -99.11033	V10157, 49.64332, -99.59589	V10207, 49.49347, -99.95518
V10108, 49.70559, -99.11530	V10158, 49.63988, -99.60018	V10208, 49.49760, -99.96925
V10109, 49.70759, -99.12389	V10159, 49.63843, -99.60980	V10209, 49.50005, -99.97973
V10110, 49.71225, -99.14054	V10160, 49.63610, -99.62095	V10210, 49.50273, -99.98711
V10111, 49.71359, -99.15118	V10161, 49.63054, -99.62593	V10211, 49.50875, -99.99638
V10112, 49.71658, -99.18019	V10162, 49.62687, -99.62954	V10212, 49.51254, -100.00479
V10113, 49.71647, -99.20594	V10163, 49.62031, -99.63451	V10213, 49.51711, -100.01286
V10114, 49.71536, -99.22208	V10164, 49.61730, -99.63966	V10214, 49.51967, -100.02058
V10115, 49.71336, -99.23238	V10165, 49.61286, -99.64567	V10215, 49.52279, -100.02676
V10116, 49.71015, -99.24525	V10166, 49.61141, -99.65305	V10216, 49.52925, -100.03380
V10117, 49.70426, -99.25589	V10167, 49.61130, -99.66232	V10217, 49.53493, -100.03826
V10118, 49.69938, -99.26225	V10168, 49.61030, -99.67074	V10218, 49.53883, -100.04427
V10119, 49.68827, -99.27203	V10169, 49.60874, -99.67880	V10219, 49.54073, -100.05268
V10120, 49.68361, -99.27787	V10170, 49.60562, -99.68670	V10220, 49.54462, -100.05972
V10121, 49.67594, -99.28387	V10171, 49.60073, -99.69803	V10221, 49.55124, -100.06711
V10122, 49.66539, -99.28525	V10172, 49.59661, -99.70575	V10222, 49.56015, -100.08187
V10123, 49.66295, -99.28817	V10173, 49.59149, -99.71708	V10223, 49.56783, -100.10247
V10124, 49.65105, -99.30499	V10174, 49.58704, -99.72464	V10224, 49.57874, -100.13182
V10125, 49.64172, -99.31254	V10175, 49.58426, -99.73167	V10225, 49.58164, -100.14435
V10126, 49.63016, -99.31306	V10176, 49.57959, -99.74180	V10226, 49.58498, -100.15139
V10127, 49.62426, -99.31632	V10177, 49.57135, -99.75313	V10227, 49.58876, -100.15809
V10128, 49.61881, -99.32301	V10178, 49.56768, -99.75777	V10228, 49.59199, -100.16512
V10129, 49.61459, -99.33349	V10179, 49.56189, -99.76206	V10229, 49.59432, -100.16924
V10130, 49.61514, -99.34842	V10180, 49.55777, -99.76652	V10230, 49.59811, -100.17474
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V10132, 49.62193, -99.37245	V10182, 49.55019, -99.77905	V10232, 49.60868, -100.20993
V10133, 49.62904, -99.38447	V10183, 49.54607, -99.78712	V10233, 49.61235, -100.21765
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V10141, 49.63216, -99.46978	V10191, 49.51744, -99.83845	V10241, 49.60623, -100.29559
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V10143, 49.64116, -99.48369	V10193, 49.50563, -99.84360	V10243, 49.60845, -100.31567
V10144, 49.64872, -99.50686	V10194, 49.49292, -99.85304	V10244, 49.60678, -100.32374
V10145, 49.65372, -99.51545	V10195, 49.48043, -99.85596	V10245, 49.60367, -100.33455
V10146, 49.65817, -99.52197	V10196, 49.47451, -99.85956	V10246, 49.59744, -100.34691
V10147, 49.66278, -99.52609	V10197, 49.47072, -99.86300	V10247, 49.59488, -100.35498
V10148, 49.66610, -99.53323	V10198, 49.46927, -99.87192	V10248, 49.59243, -100.36528
V10149, 49.66955, -99.54456	V10199, 49.46994, -99.87896	V10249, 49.59121, -100.38622
V10150, 49.67055, -99.55847	V10200, 49.47228, -99.88686	V10250, 49.58831, -100.40700
V10151, 49.66910, -99.56482	V10201, 49.47596, -99.89698	V10251, 49.58631, -100.43652
V10152, 49.66699, -99.57409	V10202, 49.47920, -99.90831	V10252, 49.58320, -100.44253
V10153, 49.66466, -99.58010	V10203, 49.48176, -99.91707	V10253, 49.57819, -100.44888
V10154, 49.66288, -99.58593	V10204, 49.48734, -99.92634	V10254, 49.57385, -100.46038
V10155, 49.65544, -99.59126	V10205, 49.49035, -99.93578	V10255, 49.56917, -100.46450

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V10256, 49.56138, -100.46897	V10306, 49.34265, -100.86053	V10356, 49.01521, -100.96816
V10257, 49.55659, -100.46811	V10307, 49.33840, -100.87151	V10357, 49.01048, -100.96833
V10258, 49.55147, -100.47051	V10308, 49.33561, -100.87769	V10358, 49.00519, -100.96953
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V10260, 49.54077, -100.48356	V10310, 49.32945, -100.89263	V10360, 48.99156, -100.97365
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V10406, 48.65579, -100.79753	V10456, 48.23126, -100.95477	V10506, 47.83582, -101.10394
V10407, 48.65125, -100.79684	V10457, 48.21754, -100.95923	V10507, 47.83121, -101.10480
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V10411, 48.63014, -100.80680	V10461, 48.17806, -100.98086	V10511, 47.80942, -101.11270
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V10415, 48.60325, -100.80851	V10465, 48.14348, -100.99803	V10515, 47.77298, -101.12523
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V10449, 48.27093, -100.93348	V10499, 47.87774, -101.08918	V10549, 47.48086, -101.22067
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V10455, 48.24064, -100.94893	V10505, 47.84192, -101.10360	V10555, 47.42723, -101.23681

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V10556, 47.42224, -101.23972	V10606, 46.60240, -102.04519	V10656, 45.98060, -103.24786
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V10573, 47.27942, -101.28075	V10623, 46.31394, -102.57020	V10673, 45.91914, -103.46086
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V10584, 47.06944, -101.53804	V10634, 46.14361, -102.85950	V10684, 45.90872, -103.66479
V10585, 47.05021, -101.55947	V10635, 46.13262, -102.88450	V10685, 45.90247, -103.67386
V10586, 47.03098, -101.57732	V10636, 46.12163, -102.90950	V10686, 45.89413, -103.67990
V10587, 47.01175, -101.59518	V10637, 46.10789, -102.93450	V10687, 45.88163, -103.69803
V10588, 46.99252, -101.60947	V10638, 46.09141, -102.95593	V10688, 45.87747, -103.71011
V10589, 46.97054, -101.63090	V10639, 46.07492, -103.01307	V10689, 45.87226, -103.72069
V10590, 46.95406, -101.65233	V10640, 46.04832, -103.06055	V10690, 45.86601, -103.73126
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V10593, 46.89636, -101.75233	V10643, 46.03582, -103.10133	V10693, 45.85663, -103.76450
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V10599, 46.74252, -101.91305	V10649, 46.01081, -103.17082	V10699, 45.82017, -103.85060
V10600, 46.72328, -101.93448	V10650, 46.00560, -103.18140	V10700, 45.81288, -103.85664
V10601, 46.70131, -101.95590	V10651, 45.99935, -103.19046	V10701, 45.80663, -103.86655
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V10605, 46.62163, -102.02376	V10655, 45.98373, -103.23578	V10705, 45.76287, -103.86953

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V10706, 45.75454, -103.86420	V10756, 45.44209, -104.05050	V10806, 45.16311, -104.32571
V10707, 45.74620, -103.86420	V10757, 45.43398, -104.05454	V10807, 45.15866, -104.33401
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V10709, 45.73058, -103.87779	V10759, 45.42013, -104.06395	V10809, 45.14943, -104.34700
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V10732, 45.53368, -103.97566	V10782, 45.27626, -104.15068	V10832, 45.04200, -104.41379
V10733, 45.52639, -103.98308	V10783, 45.26735, -104.16234	V10833, 45.02895, -104.41850
V10734, 45.52118, -103.99347	V10784, 45.25573, -104.17982	V10834, 45.02354, -104.42223
V10735, 45.51482, -104.00165	V10785, 45.25414, -104.18094	V10835, 45.02243, -104.42335
V10736, 45.50846, -104.00635	V10786, 45.25112, -104.19192	V10836, 45.01877, -104.42893
V10737, 45.50607, -104.00859	V10787, 45.24873, -104.19842	V10837, 45.01193, -104.43473
V10738, 45.50209, -104.01196	V10788, 45.24062, -104.21478	V10838, 45.00254, -104.44277
V10739, 45.50034, -104.01285	V10789, 45.23759, -104.22217	V10839, 45.00031, -104.44523
V10740, 45.49907, -104.01375	V10790, 45.23568, -104.22867	V10840, 44.99856, -104.45059
V10741, 45.49763, -104.01464	V10791, 45.23345, -104.23876	V10841, 44.99728, -104.46041
V10742, 45.49604, -104.01599	V10792, 45.22932, -104.25041	V10842, 44.99712, -104.46800
V10743, 45.49429, -104.01711	V10793, 45.22518, -104.25982	V10843, 44.99585, -104.47336
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V10745, 45.48697, -104.02249	V10795, 45.21292, -104.27574	V10845, 44.99028, -104.48497
V10746, 45.48124, -104.02787	V10796, 45.20640, -104.28470	V10846, 44.98917, -104.48586
V10747, 45.47822, -104.02988	V10797, 45.20274, -104.28829	V10847, 44.98774, -104.48631
V10748, 45.47376, -104.03078	V10798, 45.19526, -104.29120	V10848, 44.98312, -104.50105
V10749, 45.46915, -104.03257	V10799, 45.18826, -104.29322	V10849, 44.98089, -104.50618
V10750, 45.46485, -104.03280	V10800, 45.18698, -104.29411	V10850, 44.97914, -104.51377
V10751, 45.46358, -104.03325	V10801, 45.18571, -104.29568	V10851, 44.97580, -104.52181
V10752, 45.46055, -104.03616	V10802, 45.18141, -104.30285	V10852, 44.97453, -104.52605
V10753, 45.45753, -104.03907	V10803, 45.17998, -104.30510	V10853, 44.96959, -104.54682
V10754, 45.45260, -104.04490	V10804, 45.17680, -104.30891	V10854, 44.96545, -104.56066
V10755, 45.45005, -104.04737	V10805, 45.16773, -104.31832	V10855, 44.96482, -104.56446

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V10856, 44.96307, -104.56803	V10906, 44.77655, -104.90674	V10956, 44.56791, -104.97558
V10857, 44.96179, -104.57294	V10907, 44.77194, -104.91210	V10957, 44.56632, -104.97625
V10858, 44.95909, -104.58701	V10908, 44.76350, -104.91568	V10958, 44.56441, -104.97958
V10859, 44.95782, -104.59147	V10909, 44.75968, -104.91791	V10959, 44.55423, -104.99805
V10860, 44.95527, -104.59661	V10910, 44.75284, -104.92014	V10960, 44.54834, -105.00383
V10861, 44.94970, -104.60398	V10911, 44.73613, -104.92014	V10961, 44.54324, -105.00605
V10862, 44.94604, -104.60733	V10912, 44.73199, -104.92148	V10962, 44.53704, -105.00694
V10863, 44.94111, -104.61045	V10913, 44.73040, -104.92237	V10963, 44.52844, -105.00694
V10864, 44.93585, -104.61358	V10914, 44.72897, -104.92371	V10964, 44.52717, -105.00672
V10865, 44.93474, -104.61492	V10915, 44.71098, -104.91925	V10965, 44.52606, -105.00583
V10866, 44.93315, -104.61827	V10916, 44.70000, -104.91434	V10966, 44.52192, -105.00428
V10867, 44.93124, -104.62363	V10917, 44.69730, -104.91255	V10967, 44.51492, -105.00250
V10868, 44.92885, -104.62832	V10918, 44.69125, -104.90674	V10968, 44.51221, -105.00227
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V10870, 44.92631, -104.63635	V10920, 44.68902, -104.89982	V10970, 44.49439, -104.99693
V10871, 44.92424, -104.64863	V10921, 44.68807, -104.89826	V10971, 44.48229, -104.99693
V10872, 44.92265, -104.65556	V10922, 44.68409, -104.89603	V10972, 44.47434, -104.99983
V10873, 44.92074, -104.66069	V10923, 44.67502, -104.89536	V10973, 44.46781, -105.00339
V10874, 44.91930, -104.66627	V10924, 44.66945, -104.89379	V10974, 44.46272, -105.00383
V10875, 44.91676, -104.67119	V10925, 44.66404, -104.89335	V10975, 44.45476, -104.99983
V10876, 44.91469, -104.67677	V10926, 44.65592, -104.89067	V10976, 44.44855, -104.99538
V10877, 44.91198, -104.68213	V10927, 44.65321, -104.89045	V10977, 44.43519, -104.99093
V10878, 44.90864, -104.68771	V10928, 44.65067, -104.88955	V10978, 44.43009, -104.98848
V10879, 44.90514, -104.69485	V10929, 44.64812, -104.88955	V10979, 44.42214, -104.98670
V10880, 44.90164, -104.69999	V10930, 44.64669, -104.89000	V10980, 44.42118, -104.98537
V10881, 44.89066, -104.71138	V10931, 44.64319, -104.89335	V10981, 44.41720, -104.98470
V10882, 44.88811, -104.71361	V10932, 44.63746, -104.89848	V10982, 44.41052, -104.98203
V10883, 44.88668, -104.71405	V10933, 44.63587, -104.89938	V10983, 44.40527, -104.98159
V10884, 44.88541, -104.71495	V10934, 44.63284, -104.90027	V10984, 44.40256, -104.98092
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V10886, 44.87538, -104.73102	V10936, 44.62170, -104.90161	V10986, 44.39047, -104.97291
V10887, 44.87060, -104.74330	V10937, 44.61518, -104.90228	V10987, 44.37821, -104.96557
V10888, 44.86758, -104.75000	V10938, 44.60945, -104.90116	V10988, 44.37360, -104.96134
V10889, 44.86392, -104.75715	V10939, 44.60674, -104.90116	V10989, 44.36691, -104.95667
V10890, 44.85676, -104.77412	V10940, 44.60133, -104.90362	V10990, 44.35832, -104.95311
V10891, 44.85262, -104.78015	V10941, 44.59529, -104.90853	V10991, 44.35068, -104.94889
V10892, 44.84753, -104.78662	V10942, 44.59306, -104.91076	V10992, 44.34638, -104.94711
V10893, 44.83814, -104.79533	V10943, 44.59226, -104.91233	V10993, 44.34240, -104.94688
V10894, 44.83559, -104.79845	V10944, 44.59115, -104.91322	V10994, 44.33970, -104.94777
V10895, 44.83352, -104.80180	V10945, 44.59051, -104.91491	V10995, 44.33588, -104.94978
V10896, 44.83034, -104.80806	V10946, 44.58956, -104.91625	V10996, 44.33461, -104.95089
V10897, 44.82509, -104.82257	V10947, 44.58924, -104.91752	V10997, 44.32982, -104.95686
V10898, 44.82302, -104.82971	V10948, 44.58924, -104.92108	V10998, 44.32669, -104.96005
V10899, 44.81490, -104.84936	V10949, 44.58733, -104.93020	V10999, 44.31873, -104.96766
V10900, 44.80774, -104.86365	V10950, 44.58574, -104.94110	V11000, 44.31579, -104.96977
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V10902, 44.80042, -104.87995	V10952, 44.58303, -104.95623	V11002, 44.30074, -104.97779
V10903, 44.78721, -104.89469	V10953, 44.58192, -104.95956	V11003, 44.29678, -104.97820
V10904, 44.78260, -104.90072	V10954, 44.57842, -104.96624	V11004, 44.29209, -104.97663
V10905, 44.78069, -104.90407	V10955, 44.57364, -104.97069	V11005, 44.28471, -104.97636

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V11006, 44.27859, -104.97659	V11056, 44.07950, -105.19549	V11106, 43.98974, -105.36658
V11007, 44.26267, -104.98668	V11057, 44.07854, -105.19966	V11107, 43.98879, -105.36505
V11008, 44.25328, -104.99063	V11058, 44.07854, -105.20997	V11108, 43.98751, -105.36527
V11009, 44.24915, -104.99370	V11059, 44.07807, -105.21589	V11109, 43.98640, -105.36614
V11010, 44.24628, -104.99523	V11060, 44.07854, -105.21984	V11110, 43.98306, -105.36987
V11011, 44.24501, -104.99655	V11061, 44.07854, -105.22752	V11111, 43.98178, -105.37031
V11012, 44.23721, -104.99940	V11062, 44.07902, -105.23366	V11112, 43.98178, -105.37711
V11013, 44.23562, -104.99962	V11063, 44.07902, -105.23805	V11113, 43.98290, -105.38435
V11014, 44.23259, -105.00072	V11064, 44.07838, -105.24638	V11114, 43.98290, -105.38852
V11015, 44.23021, -105.00269	V11065, 44.07791, -105.24836	V11115, 43.98162, -105.39181
V11016, 44.22941, -105.00422	V11066, 44.07695, -105.24989	V11116, 43.97908, -105.39356
V11017, 44.22718, -105.01081	V11067, 44.07441, -105.25274	V11117, 43.97494, -105.39488
V11018, 44.22352, -105.01431	V11068, 44.07027, -105.25625	V11118, 43.97223, -105.39466
V11019, 44.22018, -105.02024	V11069, 44.06708, -105.26064	V11119, 43.96969, -105.39356
V11020, 44.21557, -105.02528	V11070, 44.06549, -105.26152	V11120, 43.96555, -105.39268
V11021, 44.21127, -105.02857	V11071, 44.06295, -105.26217	V11121, 43.96173, -105.39005
V11022, 44.20363, -105.03186	V11072, 44.05881, -105.26196	V11122, 43.96046, -105.39027
V11023, 44.20220, -105.03274	V11073, 44.05801, -105.26349	V11123, 43.95871, -105.39378
V11024, 44.20093, -105.03428	V11074, 44.05626, -105.26963	V11124, 43.95568, -105.39861
V11025, 44.19933, -105.03800	V11075, 44.04974, -105.28696	V11125, 43.95505, -105.40014
V11026, 44.19631, -105.05204	V11076, 44.04783, -105.29047	V11126, 43.95393, -105.40146
V11027, 44.18883, -105.07661	V11077, 44.04401, -105.29266	V11127, 43.95330, -105.40321
V11028, 44.18501, -105.08736	V11078, 44.03987, -105.29420	V11128, 43.95346, -105.40672
V11029, 44.18055, -105.09635	V11079, 44.03573, -105.29771	V11129, 43.95521, -105.41594
V11030, 44.17960, -105.09767	V11080, 44.03478, -105.29902	V11130, 43.95521, -105.42515
V11031, 44.17387, -105.10227	V11081, 44.03223, -105.30034	V11131, 43.95314, -105.43239
V11032, 44.16814, -105.10622	V11082, 44.03096, -105.30034	V11132, 43.95218, -105.43436
V11033, 44.15589, -105.11324	V11083, 44.02841, -105.30188	V11133, 43.94995, -105.43743
V11034, 44.15159, -105.11499	V11084, 44.02698, -105.30210	V11134, 43.94566, -105.44182
V11035, 44.14713, -105.11850	V11085, 44.02555, -105.30517	V11135, 43.94454, -105.44379
V11036, 44.14300, -105.12355	V11086, 44.02332, -105.31613	V11136, 43.94311, -105.44774
V11037, 44.14029, -105.12530	V11087, 44.02300, -105.32206	V11137, 43.94056, -105.45805
V11038, 44.13584, -105.12443	V11088, 44.02348, -105.32578	V11138, 43.93850, -105.46924
V11039, 44.13154, -105.12443	V11089, 44.02316, -105.32776	V11139, 43.93643, -105.47779
V11040, 44.12883, -105.12399	V11090, 44.02348, -105.32951	V11140, 43.93436, -105.48349
V11041, 44.12740, -105.12443	V11091, 44.02332, -105.33566	V11141, 43.93229, -105.48744
V11042, 44.12485, -105.12618	V11092, 44.02189, -105.34289	V11142, 43.92974, -105.49139
V11043, 44.12215, -105.12728	V11093, 44.02109, -105.34882	V11143, 43.92704, -105.49885
V11044, 44.11546, -105.13101	V11094, 44.02046, -105.35035	V11144, 43.92576, -105.50477
V11045, 44.11228, -105.13627	V11095, 44.01918, -105.35057	V11145, 43.92481, -105.51223
V11046, 44.10798, -105.14482	V11096, 44.01504, -105.34991	V11146, 43.92433, -105.51420
V11047, 44.10608, -105.14965	V11097, 44.01091, -105.35167	V11147, 43.92258, -105.51859
V11048, 44.10289, -105.15426	V11098, 44.00661, -105.35737	V11148, 43.92019, -105.52166
V11049, 44.09828, -105.16479	V11099, 44.00406, -105.35913	V11149, 43.91781, -105.52320
V11050, 44.09573, -105.16961	V11100, 44.00008, -105.36088	V11150, 43.91622, -105.52363
V11051, 44.09175, -105.17224	V11101, 43.99897, -105.36220	V11151, 43.91478, -105.52363
V11052, 44.08841, -105.17619	V11102, 43.99467, -105.37009	V11152, 43.91351, -105.52473
V11053, 44.08602, -105.18014	V11103, 43.99356, -105.37119	V11153, 43.91271, -105.52627
V11054, 44.08316, -105.18606	V11104, 43.99229, -105.37119	V11154, 43.91080, -105.53197
V11055, 44.08173, -105.19023	V11105, 43.99117, -105.37009	V11155, 43.91001, -105.53614

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V11156, 43.90460, -105.55083	V11206, 43.76315, -105.90215	V11256, 43.69930, -106.36405
V11157, 43.89537, -105.56750	V11207, 43.76135, -105.90545	V11257, 43.69914, -106.36839
V11158, 43.88311, -105.58834	V11208, 43.75954, -105.91627	V11258, 43.69835, -106.37468
V11159, 43.87786, -105.59843	V11209, 43.75563, -105.92326	V11259, 43.69485, -106.39357
V11160, 43.87229, -105.61620	V11210, 43.75397, -105.92851	V11260, 43.69341, -106.40594
V11161, 43.87070, -105.61949	V11211, 43.75323, -105.93563	V11261, 43.69278, -106.41506
V11162, 43.86815, -105.62080	V11212, 43.75010, -105.95500	V11262, 43.69166, -106.42483
V11163, 43.86418, -105.62102	V11213, 43.74918, -105.96367	V11263, 43.69175, -106.43394
V11164, 43.86083, -105.61795	V11214, 43.74913, -105.96932	V11264, 43.69126, -106.43735
V11165, 43.85367, -105.61510	V11215, 43.74849, -105.97866	V11265, 43.69126, -106.44237
V11166, 43.85208, -105.61532	V11216, 43.74742, -105.98902	V11266, 43.69082, -106.44738
V11167, 43.85065, -105.61620	V11217, 43.74751, -106.00246	V11267, 43.68975, -106.45234
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V11169, 43.84158, -105.63747	V11219, 43.74497, -106.01981	V11269, 43.68689, -106.47603
V11170, 43.83776, -105.64537	V11220, 43.74468, -106.02297	V11270, 43.68625, -106.48437
V11171, 43.83553, -105.64800	V11221, 43.74439, -106.02674	V11271, 43.68625, -106.48963
V11172, 43.83378, -105.65173	V11222, 43.74390, -106.03043	V11272, 43.68673, -106.49336
V11173, 43.83044, -105.65678	V11223, 43.74292, -106.03453	V11273, 43.68673, -106.50082
V11174, 43.82725, -105.66358	V11224, 43.74228, -106.03978	V11274, 43.68975, -106.51771
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V11176, 43.82503, -105.67454	V11226, 43.73740, -106.04838	V11276, 43.69469, -106.53218
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V11178, 43.82550, -105.68946	V11228, 43.73143, -106.06526	V11278, 43.69564, -106.53723
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V11180, 43.82646, -105.70108	V11230, 43.72718, -106.08745	V11280, 43.70042, -106.55916
V11181, 43.82487, -105.71117	V11231, 43.72488, -106.09807	V11281, 43.70519, -106.57693
V11182, 43.82264, -105.71863	V11232, 43.72317, -106.10365	V11282, 43.70535, -106.57868
V11183, 43.81866, -105.72477	V11233, 43.71980, -106.11804	V11283, 43.70439, -106.58219
V11184, 43.81611, -105.72960	V11234, 43.71804, -106.12382	V11284, 43.70392, -106.58768
V11185, 43.81468, -105.73355	V11235, 43.71545, -106.13821	V11285, 43.70392, -106.59557
V11186, 43.81373, -105.73750	V11236, 43.71325, -106.16436	V11286, 43.70455, -106.60720
V11187, 43.81182, -105.75482	V11237, 43.71320, -106.18695	V11287, 43.70615, -106.61641
V11188, 43.80879, -105.76820	V11238, 43.71135, -106.19489	V11288, 43.70806, -106.62343
V11189, 43.80625, -105.77522	V11239, 43.71027, -106.19832	V11289, 43.71291, -106.63591
V11190, 43.79940, -105.78729	V11240, 43.70861, -106.20706	V11290, 43.71467, -106.64113
V11191, 43.79654, -105.79365	V11241, 43.70793, -106.21445	V11291, 43.71467, -106.64387
V11192, 43.79161, -105.80791	V11242, 43.70783, -106.22299	V11292, 43.71340, -106.65062
V11193, 43.78779, -105.82041	V11243, 43.70700, -106.23086	V11293, 43.71061, -106.65831
V11194, 43.78632, -105.82887	V11244, 43.70709, -106.23543	V11294, 43.70900, -106.66039
V11195, 43.78515, -105.83216	V11245, 43.70885, -106.24390	V11295, 43.70211, -106.66547
V11196, 43.78266, -105.84534	V11246, 43.70929, -106.25815	V11296, 43.70020, -106.66754
V11197, 43.78085, -105.85105	V11247, 43.70851, -106.26569	V11297, 43.69903, -106.66982
V11198, 43.77972, -105.85320	V11248, 43.70773, -106.26911	V11298, 43.69629, -106.67878
V11199, 43.77845, -105.85462	V11249, 43.70348, -106.27698	V11299, 43.69615, -106.68399
V11200, 43.77498, -105.85670	V11250, 43.70245, -106.28041	V11300, 43.69649, -106.68627
V11201, 43.77185, -105.86389	V11251, 43.70201, -106.28377	V11301, 43.69751, -106.68961
V11202, 43.77000, -105.87149	V11252, 43.70172, -106.28733	V11302, 43.69737, -106.69195
V11203, 43.76628, -105.88958	V11253, 43.70152, -106.29883	V11303, 43.69703, -106.69295
V11204, 43.76545, -105.89408	V11254, 43.69930, -106.32063	V11304, 43.69595, -106.69382
V11205, 43.76462, -105.89852	V11255, 43.69930, -106.34429	V11305, 43.69233, -106.69449

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V11306, 43.68793, -106.69449	V11356, 43.58534, -106.87633	V11406, 43.41286, -106.79875
V11307, 43.67728, -106.69797	V11357, 43.58373, -106.87640	V11407, 43.41203, -106.79508
V11308, 43.67049, -106.70071	V11358, 43.58158, -106.87519	V11408, 43.41164, -106.79494
V11309, 43.66746, -106.70620	V11359, 43.57967, -106.87359	V11409, 43.41135, -106.79541
V11310, 43.66443, -106.71857	V11360, 43.57430, -106.86677	V11410, 43.40978, -106.79608
V11311, 43.66345, -106.73021	V11361, 43.56809, -106.86209	V11411, 43.40788, -106.79788
V11312, 43.66291, -106.73275	V11362, 43.56218, -106.85694	V11412, 43.40709, -106.79822
V11313, 43.66105, -106.73776	V11363, 43.55968, -106.85560	V11413, 43.40631, -106.79802
V11314, 43.65924, -106.74505	V11364, 43.55700, -106.85553	V11414, 43.40602, -106.79708
V11315, 43.65900, -106.74886	V11365, 43.55392, -106.85493	V11415, 43.40524, -106.79701
V11316, 43.65802, -106.75375	V11366, 43.55177, -106.85399	V11416, 43.40460, -106.79775
V11317, 43.65406, -106.76097	V11367, 43.54615, -106.84918	V11417, 43.40387, -106.79982
V11318, 43.65045, -106.76866	V11368, 43.54351, -106.84777	V11418, 43.40235, -106.80083
V11319, 43.64849, -106.77648	V11369, 43.54126, -106.84757	V11419, 43.40118, -106.80043
V11320, 43.64649, -106.78264	V11370, 43.53671, -106.84891	V11420, 43.39918, -106.80129
V11321, 43.64532, -106.79086	V11371, 43.53285, -106.84878	V11421, 43.39844, -106.80083
V11322, 43.64532, -106.79996	V11372, 43.52493, -106.84737	V11422, 43.39805, -106.79982
V11323, 43.64918, -106.81126	V11373, 43.52093, -106.84630	V11423, 43.39732, -106.79922
V11324, 43.65054, -106.81855	V11374, 43.51995, -106.84530	V11424, 43.39536, -106.79976
V11325, 43.65064, -106.82216	V11375, 43.51159, -106.84236	V11425, 43.39370, -106.80156
V11326, 43.65289, -106.83099	V11376, 43.50529, -106.83828	V11426, 43.39351, -106.80263
V11327, 43.65328, -106.83607	V11377, 43.50172, -106.83701	V11427, 43.39082, -106.80471
V11328, 43.65274, -106.84162	V11378, 43.49502, -106.83346	V11428, 43.38750, -106.80611
V11329, 43.65284, -106.85165	V11379, 43.49023, -106.82978	V11429, 43.38554, -106.80738
V11330, 43.65436, -106.86476	V11380, 43.48759, -106.82845	V11430, 43.38339, -106.80698
V11331, 43.65411, -106.86517	V11381, 43.48735, -106.82798	V11431, 43.38197, -106.80812
V11332, 43.65522, -106.87239	V11382, 43.48774, -106.82818	V11432, 43.37953, -106.80785
V11333, 43.65601, -106.88397	V11383, 43.48486, -106.82818	V11433, 43.37840, -106.80725
V11334, 43.65697, -106.88944	V11384, 43.48256, -106.82711	V11434, 43.37415, -106.80364
V11335, 43.65713, -106.89512	V11385, 43.47831, -106.82718	V11435, 43.37332, -106.80230
V11336, 43.65822, -106.90268	V11386, 43.47533, -106.82691	V11436, 43.37122, -106.80156
V11337, 43.65778, -106.90843	V11387, 43.47264, -106.82858	V11437, 43.37073, -106.80002
V11338, 43.65656, -106.91077	V11388, 43.47014, -106.82925	V11438, 43.37049, -106.79407
V11339, 43.65548, -106.91157	V11389, 43.46848, -106.83059	V11439, 43.37215, -106.78832
V11340, 43.65226, -106.91204	V11390, 43.46809, -106.83032	V11440, 43.37220, -106.77816
V11341, 43.64981, -106.91164	V11391, 43.46545, -106.83072	V11441, 43.37176, -106.76973
V11342, 43.64561, -106.90836	V11392, 43.46096, -106.83072	V11442, 43.36961, -106.76217
V11343, 43.64189, -106.90716	V11393, 43.45382, -106.82938	V11443, 43.36799, -106.75829
V11344, 43.63691, -106.90134	V11394, 43.45353, -106.82898	V11444, 43.36589, -106.75655
V11345, 43.63407, -106.90007	V11395, 43.45059, -106.82932	V11445, 43.36218, -106.75054
V11346, 43.62200, -106.89271	V11396, 43.44561, -106.82858	V11446, 43.35793, -106.73937
V11347, 43.61917, -106.89164	V11397, 43.43676, -106.82838	V11447, 43.35621, -106.73796
V11348, 43.61364, -106.89098	V11398, 43.43285, -106.82591	V11448, 43.35582, -106.73636
V11349, 43.60978, -106.88623	V11399, 43.42958, -106.82470	V11449, 43.35509, -106.73489
V11350, 43.60661, -106.88389	V11400, 43.42449, -106.82142	V11450, 43.35392, -106.73469
V11351, 43.60323, -106.88255	V11401, 43.42151, -106.82015	V11451, 43.35245, -106.73562
V11352, 43.60059, -106.88228	V11402, 43.41970, -106.81862	V11452, 43.34967, -106.73569
V11353, 43.59444, -106.87967	V11403, 43.41702, -106.81454	V11453, 43.34781, -106.73469
V11354, 43.59180, -106.87901	V11404, 43.41438, -106.80624	V11454, 43.34795, -106.73255
V11355, 43.58886, -106.87727	V11405, 43.41340, -106.80170	V11455, 43.34937, -106.72880

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V11456, 43.34932, -106.72546	V11506, 43.18764, -106.59592	V11556, 42.94050, -106.43810
V11457, 43.34971, -106.72385	V11507, 43.18491, -106.59799	V11557, 42.93668, -106.43788
V11458, 43.35011, -106.71770	V11508, 43.18163, -106.59986	V11558, 42.93414, -106.43701
V11459, 43.34795, -106.71034	V11509, 43.17518, -106.60127	V11559, 42.92761, -106.43593
V11460, 43.34795, -106.70914	V11510, 43.16897, -106.59906	V11560, 42.92506, -106.43593
V11461, 43.34649, -106.70546	V11511, 43.16472, -106.59625	V11561, 42.91774, -106.43161
V11462, 43.34439, -106.70172	V11512, 43.15846, -106.59418	V11562, 42.91186, -106.42663
V11463, 43.34131, -106.69710	V11513, 43.15470, -106.59137	V11563, 42.90915, -106.42511
V11464, 43.33833, -106.68954	V11514, 43.14986, -106.58970	V11564, 42.89785, -106.41646
V11465, 43.33735, -106.68513	V11515, 43.14561, -106.58789	V11565, 42.89308, -106.41213
V11466, 43.33652, -106.67510	V11516, 43.13950, -106.58602	V11566, 42.89037, -106.41062
V11467, 43.33637, -106.66935	V11517, 43.13486, -106.58488	V11567, 42.88798, -106.40867
V11468, 43.33549, -106.66366	V11518, 43.13114, -106.58274	V11568, 42.88210, -106.40283
V11469, 43.33398, -106.65938	V11519, 43.12782, -106.58154	V11569, 42.87700, -106.39634
V11470, 43.33280, -106.65778	V11520, 43.12611, -106.58161	V11570, 42.87366, -106.38790
V11471, 43.33158, -106.65711	V11521, 43.12044, -106.58040	V11571, 42.86857, -106.37146
V11472, 43.32963, -106.65731	V11522, 43.11760, -106.57926	V11572, 42.86570, -106.35047
V11473, 43.32770, -106.65706	V11523, 43.11105, -106.57833	V11573, 42.86539, -106.33641
V11474, 43.31354, -106.65273	V11524, 43.10504, -106.57599	V11574, 42.8648, -101.25589
V11475, 43.30749, -106.65165	V11525, 43.10162, -106.57358	V11575, 42.86296, -101.23446
V11476, 43.28839, -106.65100	V11526, 43.10084, -106.57345	V11576, 42.86046, -101.20589
V11477, 43.28553, -106.65165	V11527, 43.09885, -106.57159	V11577, 42.85846, -101.14874
V11478, 43.27852, -106.65187	V11528, 43.09519, -106.56662	V11578, 42.85121, -101.12017
V11479, 43.27216, -106.65165	V11529, 43.08628, -106.55666	V11579, 42.84121, -101.09160
V11480, 43.26532, -106.65035	V11530, 43.08373, -106.55493	V11580, 42.83121, -101.06303
V11481, 43.26134, -106.64905	V11531, 43.07943, -106.54974	V11581, 42.82121, -101.03446
V11482, 43.25449, -106.64559	V11532, 43.07562, -106.54693	V11582, 42.81472, -101.01303
V11483, 43.25099, -106.64235	V11533, 43.06814, -106.53979	V11583, 42.80549, -100.99517
V11484, 43.24415, -106.63196	V11534, 43.05938, -106.53135	V11584, 42.79176, -100.97017
V11485, 43.24113, -106.62569	V11535, 43.05636, -106.52681	V11585, 42.78378, -100.96660
V11486, 43.24001, -106.62417	V11536, 43.05047, -106.52161	V11586, 42.77180, -100.96660
V11487, 43.24023, -106.62467	V11537, 43.04697, -106.51858	V11587, 42.76582, -100.95945
V11488, 43.23828, -106.62240	V11538, 43.04172, -106.51642	V11588, 42.75384, -100.95945
V11489, 43.23495, -106.62013	V11539, 43.04060, -106.51556	V11589, 42.74285, -100.93445
V11490, 43.23329, -106.61792	V11540, 43.03281, -106.51166	V11590, 42.73462, -100.92017
V11491, 43.23261, -106.61638	V11541, 43.02899, -106.51036	V11591, 42.72164, -100.90945
V11492, 43.23080, -106.61076	V11542, 43.02771, -106.50950	V11592, 42.71024, -100.89159
V11493, 43.22782, -106.60836	V11543, 43.02437, -106.50604	V11593, 42.70043, -100.88445
V11494, 43.22616, -106.60568	V11544, 43.01769, -106.50192	V11594, 42.69145, -100.88445
V11495, 43.22415, -106.60394	V11545, 43.01546, -106.49976	V11595, 42.68252, -100.89159
V11496, 43.21907, -106.60093	V11546, 43.00893, -106.49132	V11596, 42.67054, -100.89874
V11497, 43.21555, -106.60020	V11547, 43.00464, -106.48700	V11597, 42.66486, -100.90231
V11498, 43.21472, -106.59966	V11548, 42.99509, -106.47618	V11598, 42.65658, -100.90231
V11499, 43.21032, -106.59906	V11549, 42.99063, -106.47055	V11599, 42.64061, -100.89517
V11500, 43.20807, -106.59799	V11550, 42.98602, -106.46601	V11600, 42.63538, -100.87374
V11501, 43.20582, -106.59625	V11551, 42.98347, -106.46428	V11601, 42.62491, -100.84517
V11502, 43.20250, -106.59445	V11552, 42.98077, -106.46320	V11602, 42.61278, -100.83088
V11503, 43.19947, -106.59371	V11553, 42.96533, -106.45238	V11603, 42.60570, -100.82016
V11504, 43.19732, -106.59371	V11554, 42.95403, -106.44718	V11604, 42.59373, -100.82016
V11505, 43.19360, -106.59485	V11555, 42.94575, -106.44026	V11605, 42.58175, -100.81659

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V11606, 46.73977, -100.80588	V11656, 45.56942, -100.41301	V11706, 44.48973, -100.59873
V11607, 46.72603, -100.78088	V11657, 45.54469, -100.41301	V11707, 44.46775, -100.60587
V11608, 46.70680, -100.76302	V11658, 45.51997, -100.40587	V11708, 44.44578, -100.59516
V11609, 46.68757, -100.74159	V11659, 45.49799, -100.39158	V11709, 44.45951, -100.56659
V11610, 46.66559, -100.73088	V11660, 45.48425, -100.36658	V11710, 44.47600, -100.53802
V11611, 46.64636, -100.71302	V11661, 45.46228, -100.37730	V11711, 44.48698, -100.50587
V11612, 46.63262, -100.68802	V11662, 45.43755, -100.38801	V11712, 44.48698, -100.47730
V11613, 46.61889, -100.66302	V11663, 45.41008, -100.38087	V11713, 44.48698, -100.44873
V11614, 46.60240, -100.63802	V11664, 45.38810, -100.37015	V11714, 44.48698, -100.42016
V11615, 46.58317, -100.61659	V11665, 45.33865, -100.34158	V11715, 44.48149, -100.38801
V11616, 46.56119, -100.59516	V11666, 45.31392, -100.33087	V11716, 44.46501, -100.36658
V11617, 46.54746, -100.57016	V11667, 45.28370, -100.31301	V11717, 44.44303, -100.35587
V11618, 46.55021, -100.54159	V11668, 45.23974, -100.29872	V11718, 44.42105, -100.35587
V11619, 46.52273, -100.54516	V11669, 45.21227, -100.28444	V11719, 44.40457, -100.35230
V11620, 46.47053, -100.54516	V11670, 45.18755, -100.27372	V11720, 44.38259, -100.35587
V11621, 46.44031, -100.54159	V11671, 45.16007, -100.26301	V11721, 44.36336, -100.37373
V11622, 46.41284, -100.53802	V11672, 45.11337, -100.26301	V11722, 44.32489, -100.40230
V11623, 46.38811, -100.53802	V11673, 45.09139, -100.26301	V11723, 44.31116, -100.43087
V11624, 46.36339, -100.54159	V11674, 45.07491, -100.28444	V11724, 44.29742, -100.45587
V11625, 46.33592, -100.55230	V11675, 45.06117, -100.31301	V11725, 44.28094, -100.47730
V11626, 46.31119, -100.55944	V11676, 45.04194, -100.34158	V11726, 44.27544, -100.50587
V11627, 46.28372, -100.56659	V11677, 45.02271, -100.35587	V11727, 44.26171, -100.53444
V11628, 46.25624, -100.56659	V11678, 44.97875, -100.37730	V11728, 44.25346, -100.56659
V11629, 46.23427, -100.57016	V11679, 44.93205, -100.37730	V11729, 44.23973, -100.59516
V11630, 46.21229, -100.57016	V11680, 44.91007, -100.38444	V11730, 44.22874, -100.62016
V11631, 46.18756, -100.56659	V11681, 44.86062, -100.39158	V11731, 44.21500, -100.64873
V11632, 46.16558, -100.56659	V11682, 44.81117, -100.40587	V11732, 44.20676, -100.68088
V11633, 46.14086, -100.55944	V11683, 44.78919, -100.41658	V11733, 44.19577, -100.70588
V11634, 46.11613, -100.55230	V11684, 44.77820, -100.44516	V11734, 44.18478, -100.73088
V11635, 46.09415, -100.54873	V11685, 44.79743, -100.46659	V11735, 44.17105, -100.75588
V11636, 46.06668, -100.54159	V11686, 44.81117, -100.49159	V11736, 44.15456, -100.78088
V11637, 46.04470, -100.54159	V11687, 44.81666, -100.52016	V11737, 44.12159, -100.82374
V11638, 46.01723, -100.54159	V11688, 44.81941, -100.55587	V11738, 44.10236, -100.84159
V11639, 45.97053, -100.53444	V11689, 44.82490, -100.59159	V11739, 44.08313, -100.85588
V11640, 45.94580, -100.53087	V11690, 44.82490, -100.62730	V11740, 44.06115, -100.87017
V11641, 45.92657, -100.51659	V11691, 44.82490, -100.65945	V11741, 44.04192, -100.88445
V11642, 45.91558, -100.48801	V11692, 44.82490, -100.72016	V11742, 44.01994, -100.89874
V11643, 45.90734, -100.45944	V11693, 44.80292, -100.70945	V11743, 44.00071, -100.92017
V11644, 45.90459, -100.43087	V11694, 44.77545, -100.70230	V11744, 43.96225, -100.95588
V11645, 45.89360, -100.39873	V11695, 44.75073, -100.68445	V11745, 43.94302, -100.97374
V11646, 45.87162, -100.39158	V11696, 44.73149, -100.66302	V11746, 43.92654, -100.99874
V11647, 45.84964, -100.38444	V11697, 44.70677, -100.64873	V11747, 43.91280, -101.02374
V11648, 45.80294, -100.37730	V11698, 44.68204, -100.63802	V11748, 43.89632, -101.04517
V11649, 45.77272, -100.37015	V11699, 44.66006, -100.63087	V11749, 43.88533, -101.07017
V11650, 45.74525, -100.36658	V11700, 44.63809, -100.62730	V11750, 43.87434, -101.09874
V11651, 45.71777, -100.36301	V11701, 44.61611, -100.61659	V11751, 43.84686, -101.14874
V11652, 45.69580, -100.35230	V11702, 44.59688, -100.59873	V11752, 43.83862, -101.17732
V11653, 45.65184, -100.34515	V11703, 44.57765, -100.57373	V11753, 43.83588, -101.20589
V11654, 45.62711, -100.35230	V11704, 44.55567, -100.56659	V11754, 43.83313, -101.24160
V11655, 45.60239, -100.36301	V11705, 44.51171, -100.58802	V11755, 43.82763, -101.27375

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V11756, 43.81664, -101.33089	V11806, 43.43974, -102.55651	V11856, 43.28712, -102.81939
V11757, 43.80840, -101.35946	V11807, 43.43496, -102.56170	V11857, 43.28059, -102.82372
V11758, 43.80016, -101.39161	V11808, 43.43130, -102.56711	V11858, 43.27025, -102.82697
V11759, 43.78368, -101.44875	V11809, 43.42923, -102.57079	V11859, 43.26484, -102.82827
V11760, 43.75895, -101.54161	V11810, 43.42717, -102.57382	V11860, 43.25911, -102.82827
V11761, 43.75346, -101.57018	V11811, 43.42350, -102.57771	V11861, 43.25051, -102.82718
V11762, 43.74796, -101.60233	V11812, 43.42239, -102.57923	V11862, 43.24081, -102.82718
V11763, 43.73972, -101.63447	V11813, 43.42064, -102.58269	V11863, 43.23030, -102.82762
V11764, 43.73423, -101.66304	V11814, 43.41762, -102.59070	V11864, 43.22219, -102.82589
V11765, 43.72873, -101.69161	V11815, 43.41443, -102.59914	V11865, 43.21487, -102.82264
V11766, 43.72598, -101.72019	V11816, 43.41268, -102.60498	V11866, 43.21057, -102.81961
V11767, 43.71499, -101.75233	V11817, 43.41125, -102.61688	V11867, 43.20771, -102.81831
V11768, 43.70950, -101.78090	V11818, 43.40934, -102.62640	V11868, 43.20150, -102.81637
V11769, 43.70401, -101.80947	V11819, 43.40791, -102.63094	V11869, 43.19561, -102.81355
V11770, 43.70401, -101.84519	V11820, 43.40616, -102.63397	V11870, 43.19434, -102.81334
V11771, 43.69576, -101.93805	V11821, 43.40107, -102.63808	V11871, 43.19020, -102.80966
V11772, 43.69576, -102.03805	V11822, 43.39995, -102.63938	V11872, 43.18733, -102.80793
V11773, 43.69027, -102.07019	V11823, 43.39343, -102.64565	V11873, 43.17747, -102.80490
V11774, 43.68203, -102.09877	V11824, 43.38706, -102.64998	V11874, 43.16617, -102.80490
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V11776, 43.66554, -102.19162	V11826, 43.38451, -102.65214	V11876, 43.15662, -102.80338
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V11906, 42.99763, -102.84017	V11956, 42.86777, -103.08704	V12006, 42.68317, -103.42219
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V11911, 42.97615, -102.85207	V11961, 42.84088, -103.10586	V12011, 42.67696, -103.43322
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V11915, 42.97122, -102.86808	V11965, 42.82767, -103.13832	V12015, 42.66518, -103.46005
V11916, 42.97090, -102.87002	V11966, 42.82576, -103.14135	V12016, 42.66327, -103.46719
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V11921, 42.95610, -102.88690	V11971, 42.80109, -103.18181	V12021, 42.63431, -103.51522
V11922, 42.95403, -102.89058	V11972, 42.80030, -103.18375	V12022, 42.63097, -103.52063
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V11937, 42.94384, -102.97258	V11987, 42.75446, -103.31206	V12037, 42.61919, -103.66863
V11938, 42.94273, -102.97777	V11988, 42.75207, -103.31487	V12038, 42.61967, -103.67036
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V11950, 42.89451, -103.04636	V12000, 42.70385, -103.40574	V12050, 42.63988, -103.75439
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V12056, 42.66216, -103.78629	V12106, 42.67346, -104.15162	V12156, 42.75558, -104.48827
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V12059, 42.66836, -103.79728	V12109, 42.67791, -104.17037	V12159, 42.75971, -104.51026
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V12068, 42.67218, -103.82530	V12118, 42.69399, -104.22252	V12168, 42.77817, -104.60380
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V12070, 42.67425, -103.83737	V12120, 42.69112, -104.23610	V12170, 42.77913, -104.61608
V12071, 42.67569, -103.84082	V12121, 42.68969, -104.24041	V12171, 42.78072, -104.62945
V12072, 42.67966, -103.85354	V12122, 42.69033, -104.24753	V12172, 42.78199, -104.64324
V12073, 42.68110, -103.85957	V12123, 42.69303, -104.25636	V12173, 42.78199, -104.64884
V12074, 42.68253, -103.87078	V12124, 42.69494, -104.26110	V12174, 42.78120, -104.65703
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V12080, 42.68126, -103.94018	V12130, 42.70306, -104.30012	V12180, 42.76926, -104.70941
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V12084, 42.67632, -103.97747	V12134, 42.71340, -104.31757	V12184, 42.76035, -104.75294
V12085, 42.67505, -103.98523	V12135, 42.71611, -104.32555	V12185, 42.76035, -104.76631
V12086, 42.67378, -103.99622	V12136, 42.71977, -104.33331	V12186, 42.76035, -104.78678
V12087, 42.67234, -104.00333	V12137, 42.72295, -104.33848	V12187, 42.75987, -104.79368
V12088, 42.67218, -104.00699	V12138, 42.72534, -104.34473	V12188, 42.75955, -104.79562
V12089, 42.67155, -104.00958	V12139, 42.72820, -104.35529	V12189, 42.75940, -104.79928
V12090, 42.67012, -104.01368	V12140, 42.73218, -104.37512	V12190, 42.75924, -104.80273
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V12092, 42.66614, -104.02618	V12142, 42.73727, -104.39064	V12192, 42.75876, -104.80661
V12093, 42.66439, -104.03264	V12143, 42.73871, -104.39258	V12193, 42.75844, -104.80834
V12094, 42.66232, -104.04299	V12144, 42.74284, -104.39991	V12194, 42.75764, -104.81265
V12095, 42.66168, -104.04988	V12145, 42.74746, -104.40551	V12195, 42.75733, -104.81545
V12096, 42.66168, -104.06950	V12146, 42.74905, -104.40874	V12196, 42.75717, -104.81782
V12097, 42.66168, -104.08717	V12147, 42.75335, -104.41909	V12197, 42.75685, -104.82062
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V12216, 42.75701, -104.86481	V12266, 42.74030, -104.96768	V12316, 42.81335, -105.43589
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V12223, 42.75717, -104.87925	V12273, 42.73393, -105.00230	V12323, 42.84390, -105.45191
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V12246, 42.75048, -104.92441	V12296, 42.75908, -105.24636	V12346, 42.85775, -105.62110
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V12249, 42.74873, -104.92960	V12299, 42.76258, -105.26388	V12349, 42.86427, -105.66178
V12250, 42.74810, -104.93133	V12300, 42.76481, -105.27557	V12350, 42.86427, -105.68298
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V12255, 42.74571, -104.94107	V12305, 42.77388, -105.32901	V12355, 42.86539, -105.75676

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V12356, 42.86539, -105.76066	V12406, 42.87287, -106.16245
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V12363, 42.87127, -105.83033	V12413, 42.87175, -106.21351
V12364, 42.87207, -105.83530	V12414, 42.87191, -106.21935
V12365, 42.87271, -105.83747	V12415, 42.87127, -106.22454
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V12403, 42.87032, -106.11961	
V12404, 42.87207, -106.12718	
V12405, 42.87287, -106.13237	

Appendix C.

French Language Version of the Journal, Annotated by Steve F. Russell

American Journeys Document AJ-109

www.americanjourneys.org/aj-109/

Excerpt from the Original 1927 Burpee Document

This document, is in the form of letters and reports to Charles de la Boische Beauharnois, the governor of New France. The publication, with French and English versions, is in Journals and Letters of Pierre Gaultier, de Varennes, de La Verendrye, and his Sons, With Correspondence Between The Governors of Canada and The French Court, Touching the Search for the Western Sea, Edited With Introduction and Notes By Lawrence J. Burpee (1873-1946), Toronto, The Champlain Society, 1927. Also published as Journals of La Vérendrye, New York: Greenwood Press, 1968 (xxiii, 548p.). https://archive.org/details/university_of_alberta_libraries

The original manuscript is in the French national archives in Paris. It was first published by Pierre Margry in volume 6 of his Découvertes et établissements des Français dans l'ouest et dans le sud de l'Amérique Septentrionale. Mémoires et documents inédits (Paris: D. Jouaust, 1876-1886). It was first translated into English in 1914, in volume 7 of South Dakota Historical Collections.

A new English translation and a thorough examination of its route of 1742-1743, is in G. Hubert Smith's Explorations of the La Verendryes in the Northern Plains, 1738-43 (Lincoln: University of Nebraska Press, 1980).

<https://www.worldcat.org/title/explorations-of-the-la-verendryes-in-the-northern-plains-1738-43/oclc/5613837>

<https://www.historymuseum.ca/virtual-museum-of-new-france/>

<https://www.historymuseum.ca/virtual-museum-of-new-france/the-explorers/pierre-gaultier-de-varennes-et-de-la-verendrye-1732-1739/>

AMERICAN JOURNEYS COLLECTION



Journal of the Expedition of the
Chevalier de La Vérendrye and One
of His Brothers to Reach the
Western Sea, Addressed to M. the
Marquis de Beauharnois, 1742-43

by François la Vérendrye

DOCUMENT NO. AJ-109



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Monseigneur, que vous étiez persuadé que je n'admettois sur mes listes que des officiers capables de servir et qui méritoient vos bontés, c'étoit particulièrem[en]t dans l'attention que vous auriez bien voulu faire en faveur du S[ieur] de la Verendrye.

Je suis avec un très profond respect, Monseigneur,
 Votre très humble et très obéissant serviteur
 BEAUHARNOIS.

A Quebec le 27.
 octobre 1744.

Journal du voyage fait par le Chevalier de La Verendrye avec un de ses frères, pour parvenir à la mer de l'Ouest, adressé à M. le Marquis de Beauharnois. 1742-43.

Monsieur :—

Je prends la liberté de vous faire le récit du voyage que j'ai fait avec un de mes frères et deux François envoyés par

had reason to hope, Monseigneur, that you were persuaded that I would admit to my lists the names of such officers only as were capable of service and deserving of your kindness, it was particularly in connection with the favourable attention I relied on your giving to the case of Sieur de la Vérendrye.

I am with very profound respect, Monseigneur,
 Your very humble and obedient servant,
 BEAUHARNOIS.

Journal of the Expedition of the Chevalier de la Vérendrye¹ and one of his brothers to reach the Western Sea, addressed to M. the Marquis de Beauharnois. 1742-43.

Monsieur,

I take the liberty of submitting to you the narrative of the journey I made with one of my brothers and two French-

¹ See Introduction (p. 13) as to the identity of the Chevalier.

mon père, chargés de l'honneur de vos ordres pour aller découvrir la mer de l'Ouest par les Mantanes, suivant le rapport des Sauvages.

Nous sommes partis du fort la Reine le 29 Avril et arrivés aux Mantanes le 19 de May. Nous y avons resté jusques au 23 Juillet, toujours dans l'attente des Gens des Chevaux, que l'on nous faisoit espérer de jour en jour. Voyant la saison qui s'avançoit et ne voulant absolument pas relâcher, je cherchai parmi les Mantanes deux hommes pour nous conduire sur les terres des Gens des Chevaux dans l'espérance de trouver quelque village près de la montagne ou sur notre route; deux s'offrirent d'un grand cœur. Nous ne balançâmes pas un moment à partir. Nous marchâmes

men sent by my father, honoured with your orders to proceed to the discovery of the Western Sea, through the country of the Mandan, the route indicated by the savages.

We left fort La Reine on the 29th of April and arrived among the Mandan on the 19th of May. We remained there till the 23rd of July awaiting the Gens des Chevaux,¹ who were expected, we were told, from day to day. Seeing the season advancing, and being determined not to give up the undertaking, I sought among the Mandan for a couple of men to conduct us as far as the territory of the Gens des Chevaux in the hope of finding some village near the mountain or upon our route. Two very cheerfully offered. We did not hesitate a moment to leave. We walked for twenty days

¹ This tribe occupied a country some distance to the south-west of the Mandan. The explorers reached one of their villages on October 19. It is impossible to identify with any degree of certainty this or the other tribes met with by the La Vérendryes on their journey to the mountains. Parkman conjectures that these were the Cheyenne, who 'have a tradition that they were the first tribe of this region to have horses.' The Cheyenne at this period were somewhere south of the Missouri, on their migration to the south-west. Lewis and Clark found them in the Black Hills in 1804. See also *Wis. Hist. Coll.* xviii. 188 *et seq.* for identification of this and other tribes.

Southwest from Fort La Reine near Manitoba, to the Mandan Villages of North Dakota

Gens des Chevaux
People of the Horses

to the territory of the
People of the Horses

20 days west-southwest

29 April 1742

19 May 1742

23 July 1742

vingt jours Ouest-Sud-Ouest, ce qui ne me donna pas bon augure de notre route ; nous ne trouvâmes personne, mais bien des bestes sauvages. Je remarquai en plusieurs endroits des terres de différentes couleurs, comme azur, espèce de vermillon, d'un vert de pré, d'un noir luisant, d'un blanc comme de la craye et d'autres couleur d'ocre. Si j'avois prévu dans ce temps ne pas repasser dans ces continens, j'en aurois pris de chaque espèce. Je ne pouvais me charger, sachant que j'avais une grande route à faire. Nous nous sommes rendus, le 11 Août, à la Montagne des Gens des Chevaux. Nos guides ne voulant pas passer outre, nous nous mîmes à construire une petite maison pour y attendre les premiers sauvages que nous pourrions découvrir ; nous allumions des feux de tous bords pour signaux afin d'attirer du monde à nous, étant bien résolus de nous confier aux premières nations qui se présenteroient.

Le 10 Septembre, il ne nous restoit qu'un Mantane ;

west-south-west, which did not promise well for our route. We found no one, but saw plenty of wild beasts.

In several places I remarked earths of different colours, as blue, a kind of crimson, grass-green, shining black, chalk-white, and ochre.¹ Had I foreseen at the time that I should not travel over this territory again, I should have taken specimens of each kind. I could not load myself with them then, knowing I had a very long road to travel. On the second of August we reached the Mountain of the Gens des Chevaux. Our guides not wishing to go farther, we set to work to build a small house in order to await the first savages we might discover ; we also lit fires on all sides as signals to attract people to us, being resolved to entrust ourselves to the first tribes that might appear.

On the 10th of September only one Mandan remained

¹ Probably, as Parkman suggests, the coloured earths of the ' bad lands ' of the Little Missouri.

1 August 1872
(after 10-days travel)

11 August 1742
(end of the 20-day journey)

10 September 1742

Mountain of the
People of the Horses

?Cloud Peak, Big Horn
Mountains?

son camarade étoit parti depuis dix jours pour s'en retourner chez lui. J'allois ou j'envoyois tous les jours à la découverte sur des hauteurs. Le 14 Septembre, nos découvreurs aperçurent une fumée au Sud-Sud-Ouest de nous.

J'envoyai un François avec notre Mantane, qui trouvèrent un village des Beaux Hommes qui les reçurent bien. Ils leur firent entendre par signes que nous étions encore trois François, bâtis proche de là. Les chefs envoyèrent le lendemain avec nos deux hommes de leurs jeunes gens pour nous chercher. Nous nous y rendimes le 18, et on nous reçut avec de grandes démonstrations de joye.

Notre Mantane me demanda à s'en aller, craignant une nation qui étoit de leurs ennemis, je le payai grassement et

14 September 1742

with us ; his comrade had left ten days before to return home. I went myself or sent someone every day to the heights to look out. On the 14th of September our look-out men perceived a smoke to the south-south-west of us.

I sent a Frenchman with our Mandan, and they found a village of the Beaux Hommes,¹ who received them well. They gave them to understand by signs that there were three more Frenchmen of us and that we had put up a dwelling not far from there. The chiefs next day sent some of their young men with our two men to get us. We went there on the 18th and were received with great demonstrations of joy.

18 September 1742

Our Mandan asked me to be allowed to go away, fearing a tribe that was hostile to his. I paid him handsomely and

Beaux Hommes
Two Men
Fine Men
Handsome Men
frequent male companions
?Crows?

¹ 'Probably,' says Parkman, 'Crows or Apsaroka, a tribe remarkable for stature and symmetry, who long claimed that region as their own.' Parkman supposes the explorers to have now been west of the Little Missouri, in the neighbourhood of the Powder River Range. Bougainville, in his memoir on the French posts, 1757, has *Owilinioek*, or *Beaux-Hommes*. Dr. R. G. Thwaites agrees with Parkman's identification (*Wis. Hist. Coll.* xviii. 190).

According to the 1821
Lapie Map, the word is
spelled Absaroka.

lui donnai ce qui lui étoit utile et nécessaire pour se rendre chez lui, comme j'avois, ci-devant, fait à son camarade.

Nous restâmes avec les Beaux Hommes vingt et un jours. Je leur fis entendre de mon mieux de nous faire conduire à un village des Gens des Chevaux. Ils me répondirent qu'il y avoit des jeunes gens qui me conduiroient jusqu'au premier que nous rencontrerions. Je leur fis plusieurs présents, dont ils me parurent très satisfaits.

Nous en partîmes le 9 Novembre. Nous commençons à les entendre assez facilement pour nos besoins. Nos guides nous conduisirent par le Sud-Sud-Ouest.

Le deuxième jour, nous rencontrâmes un village de la nation des Petits Renards, qui nous témoignèrent une grande joye de nous voir. Après leur avoir fait quelques présents,

gave him what was useful and necessary to enable him to reach home, as I had before done to his comrade.

We remained with the Beaux Hommes twenty-one days. I did my best to make them understand that I wanted them to take us to a village of the Gens des Chevaux. They answered me that some of their young men would take me as far as the first of the tribe we might meet. I made them a number of presents with which they seemed highly pleased.

We left there on the 9th of November,¹ by which time we were beginning to understand them easily enough for our needs. Our guides led us south-south-west.

On the second day we came across a village of the tribe of the Petits Renards,² who manifested great joy at seeing us. After having made them some presents, I got my guides

¹ Parkman notes that this is an error, and that a duplicate of the journal in the Dépôt des Cartes de la Marine correctly gives the date as October 9. The present copy shows that La Vérendrye visited the *Beaux Hommes* on September 18, and remained with them twenty-one days, or until October 9.

² Bougainville's memoir of 1757 has *Makesch* or *Petits Renards*. There is no foundation upon which even to hazard a guess as to the identity of this tribe or band.

Two men

People of the Horses

Petits Renards
Little Fox People

9 October 1742

je leur fis dire par nos guides que je cherchais les Gens des Chevaux pour me conduire à la Mer. Cela fit que tout le village marcha et toujours sur la même route. Je sentis bien pour lors que nous ne pouvions trouver qu'une mer connue. Le deuxième jour de marche nous rencontrâmes un village fort nombreux de la même nation. Ils nous firent bien des amitiés. Je leur fis plusieurs présents, qu'ils regardèrent comme de grandes nouveautés, et ils m'y parurent fort sensibles. Ils nous conduisirent à un village de Pioya, où nous arrivâmes le 15. Nous y fûmes très bien reçus. Après leur avoir fait quelques présents je leur proposai de nous conduire à quelque nation qui fut sur le chemin de la mer.—Nous continuâmes notre route au Sud-Ouest. Le 17, nous rencontrâmes un village nombreux de la même nation. Je leur fis quelques présents. Nous marchâmes tous ensemble jusqu'au 19 tenant le Sud, où nous arrivâmes

to tell them that I was seeking the Gens des Chevaux to lead us to the Sea. At once the whole village set out, keeping always to the same route. I felt sure then that we could only find some already known sea. On the second day of our march we came to a very populous village of the same tribe. They were very friendly. I made them a number of presents which they considered great novelties and appeared to appreciate highly.

People of the Horses

They conducted us to a Pioya¹ village where we arrived on the 15th. There we were very well received. After having made them some presents, I proposed to them to take us to some tribe that was on the road to the Sea. We continued to move in a south-westerly direction. On the 17th we came to a large village of the same tribe, and made them some presents. We all journeyed together until the 19th, working southward, and arrived at a village of the Gens des

Pioya ?Kiowa?

People of the Horses

¹ Bougainville has *Piwassa*, or *Grands-Parleurs*, probably the same tribe as La Vérendrye's *Pioya*. Thwaites suggests that these were the Kiowa, a tribe of the plains allied to the Comanche.

15 October 1742

17 October 1742

19 October 1742

à un village des Gens des Chevaux. Ils étoient dans une grande désolation. Ce n'étoient que pleurs et hurlements, tous leurs villages ayant été détruits par les Gens du Serpent et dont il n'étoit réchappé que très peu des leurs. Cette nation du Serpent passe pour très brave. Ils ne se contentent pas, dans une campagne, de détruire un village, selon la manière de tous les Sauvages ; ils continuent la guerre depuis le printemps jusqu'à l'automne, ils sont très nombreux et malheur à ceux qui se trouvent sur leur route !

Ils n'ont aucune nation pour amie. L'on dit qu'en 1741 ils avoient entièrement défait dix-sept villages, avoient tué tous les hommes et les femmes âgées, fait esclaves les jeunes femmes et les avoient trafiquées à la mer pour des chevaux et quelques marchandises.

Chevaux. They were in great distress, nothing but tears and groans, all their villages having been destroyed by the Gens du Serpent ¹ and very few having escaped.

People of the Horses

Snake River Indians

This Serpent tribe is considered very brave. They do not content themselves in a campaign with destroying a village, according to the custom of all the savages ; they keep up the war from spring to autumn. They are very numerous, and woe to those who cross their path ! They are not friendly with any tribe. It is said that in 1741 they had entirely ruined seventeen villages, killed all the men and the old women, made slaves of the young women and sold them on the coast for horses and merchandise.

¹ Bougainville's *Hactannes*, or *Gens du Serpent*. Parkman identifies these as the Shoshoni, who occupied parts of Wyoming and Idaho. The name *Ietan*, with many variants, such as *Hietanes*, *Alietans*, etc., was applied to several western tribes, including the Shoshoni (see Hodge, *Handbook of American Indians*). E. D. Neill also identifies the *Gens du Serpent* as Shoshoni (see *Montana Hist. Contrs.* i. 276). Doane Robinson, of the State Historical Society of South Dakota, on the other hand, argues from the character and probable locality of this tribe as described by La Vérendrye that they were the Kiowa, who about that period occupied the Black Hills.

C'est chez les Gens des Chevaux, où je m'informai si l'on avoit la connoissance de la nation qui habitoit la mer. Ils me répondirent qu'il n'y avoit jamais été personne de leur nation, le chemin étant barré par les Gens du Serpent ; que nous pourrions voir, par la suite, quelques nations, qui commerçoient avec les Blancs de la Mer, en faisant un grand tour. J'engageai par présents le village à marcher pour me rendre chez les Gens de l'Arc, seule nation qui par leur bravoure ne craint point les Gens du Serpent. Ils s'en sont fait même redouter par la sagesse et la bonne conduite du chef qui est à leur tête. L'on me fit aussi espérer qu'il pourrait me donner quelques connoissances de la mer, étant ami des nations qui y vont en commerce.

Gens des Chevaux
People of Horses or Horse
People

Gens du Serpent
Serpent People, probably
the Snake River Indians,
Northern Paiute, Bannock,
and Shoshone

I enquired among the Gens des Chevaux whether they were acquainted with the nation living on the coast. They replied that no one of their tribe had ever been there, the road being barred by the Gens du Serpent ; we could see later, by making a great detour, some tribes that traded with the whites of the coast. By means of presents I persuaded the village to set out and take me to the Gens de l'Arc,¹ the only tribe sufficiently brave not to stand in dread of the Gens du Serpent. They have even caused the latter to be afraid of them through the wisdom and skilful leadership of the chief who is at their head. I was also given reason to hope that they would be able to give me some information about the Sea as they are on friendly terms with some tribes who go there to trade.

People of the Bow

Snake River Indians
Shoshoni

¹ Bougainville says these were known to the Cree as *Aichapciviniques*, and to the Assiniboin as *Utasibaoutchactas*. Parkman supposes that the *Gens de l'Arc* may have been one of the bands of the western Sioux. Granville Stuart assumes that they were the Sans Arcs band of Sioux (Itazipcho or Sans Arcs) (see *Montana Hist. Contrs.* i. 279). Doane Robinson says they were 'clearly of the allied Pawnee-Arckara people,' judging from their position and characteristics. L. A. Prud'homme identifies them as the Bow Indians of the upper waters of the South Saskatchewan (*R.S.C. Trans.* 1905). Thwaites believes they were the Cheyenne or the Arapaho, who were 'expert in the use of bow and arrow.'

21 November

Ayant toujours marché au Sud-Ouest, nous fîmes rencontre le 18 Novembre, d'un village très nombreux des Gens de la Belle-Riviere. Ils nous donnèrent connaissance des Gens de L'Arc, qui étoient près de là. Nous marchâmes tous ensemble au Sud-Ouest; le 21, nous découvrîmes le village qui nous parût fort grand. Toutes les nations de ces pays-là ont quantité de chevaux, ânes, mulets; ils leur servent à porter leurs équipages et de montures tant pour leurs chasses que pour leurs routes.

People of the Beautiful River. On the Lapie Map, this is probably the Belle Fourche River

Arrivés au village, le chef nous mena à sa loge. Nous faisant des gracieusetés et des politesses qui ne sentoient en aucune façon le Sauvage, il fit mettre tous nos équipages dans sa loge, qui étoit très grande, et prendre un grand soin de nos chevaux.

Jusque là, nous avons été bien reçus dans tous les villages

18 November

Having continued to go south-west we came on the 18th November to a very populous village of the Gens de la Belle Rivière.¹ They told us about the Gens de l'Arc who lived not far from there. We all went together to the south-west. On the 21st we discovered the village, which seemed to us very large. All the tribes of those countries have a great many horses, asses, and mules, which they use to carry their baggage and also for riding both in the chase and in their travels.

Gens de la Belle Riviere
People of the Beautiful River

21 November

When we had arrived at the village the chief conducted us to his lodge. Paying us attentions and politenesses that had in them nothing of the savage, he had all our baggage put into his lodge, which was very large, and saw that great care was taken of our horses.

Gens de l'Arc
People of the Bow

Up to that point we had been very well received in all

¹ Robinson identifies these as a band of Arickara or Rees, on the upper waters of the Cheyenne river. 'From time immemorial,' he says, 'the Sioux have called the Cheyenne river of South Dakota *Wakpa Waste*, that is Beautiful river.'

où nous avions passé, mais ce n'étoit rien en comparaison des belles manières du grand chef de L'Arc, homme nullement intéressé comme tous les autres, et qui a toujours pris un très grand soin de tout ce qui nous appartenait.

Je m'attachai à ce chef, qui méritait toute notre amitié. J'appris en peu de temps la langue, assez pour me faire entendre et entendre aussi ce qu'il me pouvoit dire, par l'application qu'il avoit à m'instruire.

Je lui demandai s'ils connoissoient les blancs de la mer et s'ils pouvoient nous y conduire, il me répondit : ' Nous les connaissons par ce que nous en ont dit les prisonniers des Gens du Serpent que nous devons joindre dans peu. Ne soyez pas surpris, si vous voyez rassemblés avec nous tant de villages. Les paroles sont envoyées de tous cotés, pour nous joindre. Vous entendez tous les jours chanter la guerre, ce n'est pas sans dessein : Nous allons marcher du côté

the villages we had passed through, but nothing in comparison with the gracious manners of the head chief of the Gens de l'Arc, a man entirely disinterested unlike the rest, and who always took the very greatest care of everything belonging to us.

I attached myself to that chief, who merited all our friendly feelings. In a short time, through the pains he took to teach me, I learnt the language sufficiently to make myself understood and also to understand what he said to me.

I asked him if they knew the whites of the coast and if they could take us thither. He replied : ' We know them through what has been told us by prisoners of the Gens du Serpent, amongst whom we shall shortly arrive. Don't be surprised if you see so many villages assembled with us. Word has been sent in all directions for them to join us. You are hearing war shouts every day ; it is not without intention ; we are going to march in the direction of the

Gens de l'Arc
People of the Bow

des grandes montagnes qui sont proches de la mer, pour y chercher les Gens du Serpent. N'appréhendez point de venir avec nous, vous n'avez rien à craindre, vous y pourrez voir la mer que vous cherchez.'

Il poursuivit son discours ainsi: 'Les François qui sont à la mer, me dit-il, sont nombreux; ils ont quantité d'esclaves qu'ils établissent sur leurs terres dans chaque nation; ils ont des appartements séparés, ils les marient ensemble et ne les tiennent pas gênés, ce qu'il fait qu'ils se plaisent avec eux et ne cherchent pas à se sauver.—Ils élèvent quantité de chevaux et autres animaux, qu'ils font travailler sur leur terre.—Ils ont quantité de chefs pour les soldats, ils en ont aussi pour la prière.' Il me dit quelques mots de leur langage. Je reconnus qu'il me parloit espagnol, et ce qui affirma de me confirmer fut le récit qu'il me fit du massacre des Espagnols qui alloient à la découverte du Missouri, dont j'avois entendu parler. Tout cela refroidit

high mountains which are near the sea to find the Gens du Serpent. Do not be afraid to come with us, you have nothing to fear, and you will be able to see the sea that you are in search of.'

Snake River Indians

He pursued his discourse thus: 'The French who are on the coast are numerous; they have a large number of slaves whom they settle on their lands in each tribe; they have separate apartments; they marry them to one another and do not oppress them, so that they like being with them and do not seek to run away. They breed a great many horses and other animals which they use in tilling the land. They have many chiefs for the soldiers and have some also for prayer.'

He spoke a few words of their language which I recognized as Spanish, being confirmed in my opinion by the recital he gave me of the massacre of the Spanish who were going in search of the Missouri, a thing I had heard spoken

bien mon empressement pour une mer connue ; cependant j'aurais fort souhaité y aller, si la chose avoit été faisable.

Nous continuâmes notre marche, tantôt Sud-Sud-Ouest, quelquefois Nord-Ouest ; toujours notre troupe s'augmentait par la jonction de plusieurs villages de différentes nations. Le 1^{er} janvier 1743 nous nous trouvâmes à la vue des montagnes. Le nombre des combattants passoit deux mille ;

of.¹ All that cooled my ardour considerably for a sea already known ; nevertheless I should greatly have wished to go there had the thing been possible.

We continued our march, sometimes south-south-west, sometimes north-west, our troop increasing all the time through the addition of several villages of different tribes. On the 1st of January 1743 we found ourselves in sight of the mountains. The number of fighting men exceeded two

1 January 1743

¹ Early in 1721 two hundred mounted Spaniards, followed by a large body of Comanche warriors, came from New Mexico to attack the French at the Illinois, but were met and routed on the Missouri by tribes of that region' (Parkman, *Half Century of Conflict*, ii. 14). Parkman gives as his authority a memoir of Bienville to the Conseil de Régence, July 20, 1721. Charlevoix, in his *Journal Historique*, gives a fuller account of the same incident, a translation of which will be found in *Wis. Hist. Coll.* xvi. 413-14. The Spanish version of the affair is given in *Kansas Hist. Coll.* xi. 397-423, in an article purporting to be written from Spanish sources in the Archives of Santa Fé. The late Dr. R. G. Thwaites, who drew my attention to this article, says : ' According to this an expedition composed of forty mounted Spanish soldiers, under the command of Lieut.-Col. Don Pedro de Villazur, accompanied as a volunteer by Jean l'Archevêque, one of the murderers of La Salle, set out from Santa Fé, June 14, 1720, on a punitive expedition against a band of Pawnee who had settled on the upper Platte, not far from its forks. They were accompanied by friendly Apaches. The 16th August the Pawnee, aided by some French traders, set upon the expedition, and two-thirds of the Spaniards, including the commandant, fell at the first volley of arrows and muskets. Only six or seven escaped the massacre. The booty was considerable, and the author claims (p. 420) to have seen knives, combs, buckles, etc., preserved among the Pawnee for more than a hundred years. He claims also that the French accounts of the period wrongly attribute the expedition to a desire to reach the Missouri and the Indians of that name. Probably when the Mississippi Valley exploitation of the French archives, contemplated by the American Historical Association, occurs, we shall get more correct French notices of this affair.'

avec leurs familles cela faisoit une troupe considérable, marchant toujours par des prairies magnifiques et où les bêtes étaient en abondance.—Toutes les nuits ce n'était que chants et hurlements, et on ne faisoit autre chose que de venir pleurer sur notre tête pour les accompagner à la guerre. Je résistais toujours en disant que nous étions pour aplanir la terre, et non pour la brouiller.

Le chef de l'Arc répétoit souvent qu'il était peiné à notre sujet, de savoir ce que penseroient de nous toutes les nations, voyant que nous faisions difficulté de les suivre ; qu'il nous demandait en grâce (étant engagés avec eux et ne pouvant nous en retirer qu'au retour de la guerre) de vouloir bien l'accompagner pour être spectateurs seulement, et nous demandant de ne pas nous exposer ; que les Gens du Serpent étaient nos ennemis aussi bien que les leurs et que nous devions savoir qu'ils n'avoient personne pour amis.

Nous consultâmes entre nous ce que nous avions à faire.

thousand, and these with their families made a considerable body as we continued to march through magnificent prairies where wild animals were in abundance. Every night songs and yells filled the air, and the men kept coming and weeping over our heads begging us to accompany them to the war. I always refused, saying that we wanted to create peace, not discord.

The chief of the Gens de l'Arc said to me over and over again that he was troubled on our account, not knowing what all the tribes would think of our unwillingness to follow them ; that he asked us as a favour (seeing that we were engaged with them and could only retire on their return from the war) to accompany him as spectators only and begging us not to expose ourselves. The Gens du Serpent, he said, were our enemies as well as theirs, and we ought to know that they were friends with nobody.

We consulted amongst ourselves as to what was best to

Gens de l'Arc
People of the Bow

Snake River Indians

Nous nous résolûmes de les suivre, voyant l'impossibilité où nous étions de pouvoir prendre d'autre parti, joint à l'envie que j'avois de voir la mer de dessus les Montagnes. Je fis part au chef de l'Arc de ce que nous avions décidé; il m'en parût très content. L'on assembla ensuite un grand conseil, où nous fûmes appelés comme de coutume; les harangues furent fort longues de la part de chaque nation. Le chef de l'Arc me les expliquoit; tout rouloit sur les mesures, qu'il y avoit à prendre pour la sureté de leurs femmes et enfants pendant leur absence et sur la manière de s'y prendre pour approcher les ennemis. L'on nous adressa ensuite la parole pour nous prier de ne pas les abandonner. Je répondis au chef de l'Arc, qui le répéta ensuite à toute l'assemblée, que le Grand Chef des François souhaitoit que tous ses enfants fussent tranquilles et nous avoit donné ordre de porter toutes les nations à la paix, désirant voir toute la terre aplanie et paisible; que connaissant leurs

do. We resolved to follow them, seeing that it was impossible in our situation to do anything else; and besides I had a strong desire to behold the Sea from the top of the mountains. I informed the chief of the Gens de l'Arc of what we had decided and he seemed greatly pleased. A great council was then assembled, to which we were summoned as usual. Long speeches were made on behalf of every tribe, and were explained to me by the chief of the Gens de l'Arc. They all turned upon the measures to be taken for the protection of their wives and children during their absence, and how best to approach the enemy. They then addressed us and begged us not to abandon them.

I replied to the chief of the Gens de l'Arc, who repeated it afterwards to the whole assembly, that the Great Chief of the French wished that all his children should be quiet and had ordered us to induce all the nations to live in peace, desiring to see the whole country tranquillized and peace-

Gens de l'Arc
People of the Bow

cœurs malades avec juste raison, je baissais la tête et que nous les accompagnerions puisqu'ils le souhaitent avec tant d'ardeur, pour les aider seulement de nos conseils dans le besoin. On nous fit de grands remerciements et de longues cérémonies du calumet.

Nous continuâmes de marcher jusqu'au 8 janvier. Le 9 nous quittâmes le village ; je laissai mon frère pour garder notre équipage, qui étoit dans la loge du chef de l'Arc.

La plus grande partie du monde étoit à cheval, marchant en bon ordre ; enfin, le douzième jour, nous arrivâmes aux Montagnes. Elles sont la plupart bien boisées de toutes espèces de bois et paroissent fort hautes.

Etant près du gros du village des Gens du Serpent, les découvreurs vinrent nous avertir qu'ils s'étaient tous sauvés avec grande précipitation, qu'ils avaient abandonnés leurs cabanes et une grande partie de leur équipages. Ce discours mit la terreur parmi tout notre monde, dans l'appréhension,

able ; that, knowing that their hearts were sick with just reason, I bowed my head, and that we would accompany them as they so ardently desired it, but only to aid them by our advice in case of necessity. They thanked us very much and long ceremonies followed with the pipe.

We continued our march until the 8th of January. On the 9th we left the village, and I left my brother behind to guard our baggage which was in the lodge of the Bow chief. Most of the people were on horseback marching in good order. Finally on the twelfth day we arrived at the mountains. For the most part they are well wooded with timber of every kind and appear very high.

Being near the main village of the Gens du Serpent our scouts came to inform us that they had all made their escape with great precipitation, and that they had abandoned their lodges and a large part of their effects. This report caused terror among all our people, for they feared that the enemy,

arrived at the mountains

8 January 1743

9 January 1743

12 January 1743

où ils étaient, que, les ennemis les ayant découverts, ils n'allassent sur leurs villages et ne s'y rendissent avant eux. Le chef de l'Arc fit ce qu'il put pour les dissuader et les engager à poursuivre. Personne ne voulut l'écouter. 'Il est bien fâcheux, me disoit-il, que je vous aie amené jusques icy et de ne pouvoir passer outre.'

J'étois très mortifié de ne pas monter sur les Montagnes, comme j'avois souhaité. Nous prîmes donc le parti de nous en retourner. Nous étions venus jusques là en très bon ordre, mais le retour fut bien différent, chacun fuyait de son bord. Nos chevaux, quoique bons, étoient bien fatigués et ne mangeoient pas souvent. Je marchais de compagnie avec le chef de l'Arc, mes deux François nous suivoient. Je m'aperçus, après avoir fait un grand bout de chemin, sans regarder derrière moy, qu'ils me manquoient. Je dis au chef de l'Arc que je ne voyois plus mes François, il me répondit : 'Je vais arrêter tout le monde qui est avec nous.'

having discovered them, had made for their villages and would get there before they could. The chief of the Gens de l'Arc did what he could to get that idea out of their heads and persuade them to go forward, but no one would listen to him. 'It is very annoying,' he said to me, 'that I have brought you so far and that we cannot go any farther.'

Gens de l'Arc
People of the Bow

I was greatly mortified not to be able to climb the mountains as I had wished. We then decided to return. We had come to this point in very good order but the return was quite different. Every one fled as he felt inclined. Our horses, though good, were very tired and were not fed often enough. I marched in company with the Bow chief and my two Frenchmen followed us. I perceived, after having gone a considerable distance without looking back, that they were not to be seen. I said to the chief of the Gens de l'Arc that I did not see my Frenchmen. He replied : 'I will stop every one who is with us.'

they decided to return
eastward so they turned
around, perhaps just as
they were reaching the
mountains of the
continental divide.

Je retournai à toute bride sur mes pas et je les aperçus à la pointe d'une île, qui faisoient manger leurs chevaux : les ayant joints, j'aperçus quinze hommes qui approchoient du bois en se couvrant de leurs pare-flèches. Il y en avoit un bien plus avancé que les autres, nous les laissâmes approcher à la demi-portée du fusil. Voyant qu'il se mettoient en devoir de nous attaquer, je jugeai bon de leur décocher quelques coups de fusil, ce qui les obligea de se retirer promptement, cette arme étant très respectable parmi toutes ces nations qui n'en ont pas l'usage, et leur pare-flèches ne pouvant pas les garantir de la balle. Nous restâmes là jusques à la nuit, après quoi nous marchâmes, selon notre idée, dans l'espérance de trouver de nos Sauvages. Les prairies où nous passâmes sont rares et sèches ; la piste des chevaux ne marquent point, nous continuâmes notre route à la bonne aventure, ne sachant pas si nous allions bien. Enfin nous arrivâmes des premiers au village des Gens

I galloped back as fast as I could and saw them at the point of an island letting their horses feed ; having caught up with them, I saw fifteen men approaching from the wood and covering themselves with their shields. One was much in advance of the others, and we allowed them to come within half gunshot. Seeing that they were preparing to attack us, I judged it well to let fly a few shots at them which caused them to retreat in a hurry, fire-arms enjoying a high respect among these tribes, who do not make use of them, and whose shields cannot protect them against bullets.

We remained there till nightfall, after which we set out, as we thought, in expectation of finding our savages. The prairies through which we passed are bare and dry so that horses do not leave footprints. We continued our route at random, not knowing whether we were on the right track or not. Finally we arrived among the first at the village of

de L'Arc, le 9 Février, qui étoit le deuxième de notre dérouté.

Le chef de l'Arc avoit bien couru pour faire arrêter la bande, qui marchoit avec nous, mais la terreur étoit trop grande parmi eux pour s'amuser sur un terrain si près de l'ennemi. Il fut très inquiet toute la nuit ; le lendemain, il fit faire un grand cerne pour nous couper le chemin. Il ne cessa de faire chercher ses gens, sans pouvoir réussir à les trouver. Il arriva enfin au village, cinq jours après nous, plus mort que vif, dans le chagrin où il étoit de ne scavoir ce que nous étions devenus. La première nouvelle qu'il reçut fut que nous étions arrivés heureusement à la veille du mauvais temps, ayant tombé le lendemain de notre arrivée deux grands pieds de neige et un temps affreux. Sa tristesse se changea en joye ; il ne sçavoit quelles caresses et amitiés nous faire.

Ce qui nous surprit fut que le chef de l'Arc, avec plusieurs

9 February 1743

the Gens de l'Arc on the 9th February, the second day after losing our way.

The chief of the Gens de l'Arc had had a good run to stop the band that was marching with us, but their terror was too great to permit them to dally on ground so near to the enemy. He was very anxious all night ; the next day he drew a great circle to intercept us. He continued to look for his people without succeeding in finding them. He finally arrived at the village, five days after us, more dead than alive, and worrying terribly over not knowing what had become of us. The first news he received was that we had arrived fortunately just before the bad weather, as on the day after our arrival full two feet of snow fell accompanied with frightful weather. His sadness changed to joy ; he did not know how to show us enough affection and friendship.

What surprised us was that the chief of the Gens de

Gens de l'Arc
People of the Bow

autres, avoit séparé son monde pour nous cerner, afin de pouvoir nous découvrir. Il en arrivoit tous les jours au village qui étoient bien tristes, nous croyant bien perdus. Toutes les autres nations s'étoient séparées, afin de trouver plus de facilité pour les vivres. Nous continuâmes à marcher avec les Gens de l'Arc jusqu'au premier jour de Mars, faisant toujours l'Est-Sud-Est.

J'envoyai un de nos François avec un Sauvage chez les Gens de la Petite Cerise, ayant appris qu'ils étoient proches. Ils furent dix jours à leur voyage et nous apportèrent des paroles pour nous inviter à les aller joindre.

Je communiquai notre dessein au chef de l'Arc, qui fut sensiblement touché de nous voir résolus de le laisser. Nous ne l'étions pas moins de le quitter par les bonnes manières qu'il avoit toujours eues pour nous. Pour le consoler, je

l'Arc with several others had divided his people so as to surround us in order to discover us. Some of them kept arriving daily at the village, very sad, believing us to be lost. All the other nations had separated in order the more easily to procure food. We continued to travel with the Gens de l'Arc until the first of March, going east-south-east all the time.

I sent one of our Frenchmen with a savage to the Gens de la Petite Cerise,¹ having learnt that they were near at hand. They were ten days on the journey and brought us an invitation to go and join them.

I communicated our plan to the chief of the Gens de l'Arc, who was greatly affected at finding us resolved to leave him. We were not less so at parting from him on account of the kindly treatment we had always received at his hands.

¹ The explorers on March 19 reached a village of this people, on the banks of the Missouri. This village is now known to have been on the site of the town of Pierre (see footnote, p. 427). 'From time immemorial,' says Robinson, 'the Arickara or Rees had resided about Fort Pierre and continued to do so until 1797.' It would appear, therefore, that the *Gens de la Petite Cerise* were a band of Arickara.

lui promis de venir le trouver, supposé qu'il voulut aller s'établir près d'une petite rivière que je lui indiquai, y construire un fort et y faire du grain.

Il acquiesça à tout ce que je lui proposai, et me pria, sitôt que j'aurais vu mon père au fort la Reine, d'en partir ensuite, le printemps suivant, pour le venir joindre ; je luy promis pour sa consolation tout ce qu'il souhaitoit, et luy fis présent de tout ce que je croyois pouvoir lui être utile.

Ne voyant aucune apparence de nous faire mener chez les Espagnols, et ne doutant pas que mon père ne fut bien inquiet de nous, nous prîmes le parti de nous en aller au fort la Reine, et laissâmes les Gens de l'Arc avec bien du regret de part et d'autre.

Nous arrivâmes le 15 de Mars chez les Gens de la Petite Cerise. Ils revenoient d'hivernement ; ils étoient à deux jours de marche de leur fort, qui est sur le bord du Missouri.

To console him I promised to come and see him again on condition that he would consent to establish himself near a little river that I indicated, and build a fort and raise grain there.

He acquiesced in everything I proposed, and begged me as soon as I had seen my father at fort La Reine to leave there in the coming spring in order to join him ; I promised him everything he wished to console him and made him a present of whatever I thought could be useful to him.

Seeing no chance of being conducted to the Spanish settlement, and feeling sure that my father would be very anxious about us, we decided to make for fort La Reine and left the Gens de l'Arc with much regret on both sides. On the 15th of March we arrived among the Gens de la Petite Cerise. They were returning from their winter quarters, and were two days' march from their fort, which is on the bank of the Missouri.

Gens de la Petite Cerise
People of the Little Cherry

15 March 1743

Nous arrivâmes le 19 à leur fort et y fûmes reçus avec de grandes démonstrations de joie. Je m'appliquai à apprendre leur langue et y trouvai beaucoup de facilité. Il y avoit un homme chez eux, qui avoit été élevé chez les Espagnols et en parloit la langue comme sa langue naturelle. Je le questionnois souvent, et il me dit tout ce qu'on m'avoit rapporté à son sujet, qu'il avoit été baptisé et n'avoit point oublié ses prières. Je lui demandai s'il étoit facile d'y pouvoir aller. Il me répondit qu'il y avoit loin et bien des dangers à courir, par rapport à la nation du Serpent ; qu'il faudroit au moins vingt jours pour s'y rendre à cheval.

Je m'informai de leur commerce. Il me dit qu'ils travailloient le fer et faisoient un grand négoce de peaux de bœufs et d'esclaves, donnoient en échange des chevaux et des marchandises, à la volonté des Sauvages, mais point de fusils ni munitions.

Il m'apprit qu'il y avoit, à trois journées de chez eux,

19 March 1743

We arrived on the 19th at their fort and were there received with great demonstrations of joy. I applied myself to learn their language and found it quite easy. There was a man among them who had been brought up with the Spaniards and spoke their language like his mother tongue. I questioned him often and he told me all that had been reported to me about him, that he had been baptized and had not forgotten his prayers. I asked him if it was easy to go there. He answered that it was a great distance, and that the dangers were many on account of the Serpent tribe ; that it took at least twenty days' travel on horseback.

I enquired about their commerce. He told me that they worked in iron and did a large trade in ox-hides and slaves, giving in exchange horses and goods at the choice of the savages, but not guns or ammunition.

He informed me that three days' journey from where we

un François, établi depuis plusieurs années. J'aurais été le trouver, si nos chevaux eussent été en état. Je pris le parti de lui écrire pour l'engager à nous venir trouver, que nous l'attendrions jusqu'à la fin de Mars, espérant partir, au commencement d'Avril, pour nous rendre aux Mantanes et de là au fort de la Reine ; que, s'il ne pouvoit venir, il nous fit du moins sçavoir de ses nouvelles.

Je posai sur une éminence, près du fort, une plaque de plomb aux armes et inscription du Roy et des pierres en pyramide pour Monsieur le Général.—Je dis aux Sauvages, qui n'avoient pas connaissance de la plaque de plomb que j'avois mise dans la terre, que je mettois ces pierres en mémoire de ce que nous étions venus sur leurs terres. J'aurais fort

then were there was a Frenchman who had been settled there for several years. I would have gone to see him if our horses had been in condition. I decided to write to him to ask him to come and see us ; and that we would wait for him till the end of March, hoping to leave in the beginning of April to go to the country of the Mandan and thence to fort La Reine. If he could not come, I asked him to let us at least have some news from him.

I deposited on an eminence near the fort a tablet of lead with the arms and inscription of the King and a pyramid of stones for the General.¹ I said to the savages, who did not know about the tablet of lead that I had put in the ground, that I was erecting these stones in memory of the fact that we had come upon their land. I should have greatly wished

¹ By one of those lucky accidents that sometimes come to the aid of historical students, this plate was found, February 16, 1913, 'on a gumbo hill in the town of Fort Pierre, South Dakota, very near to the High School building, by a party of school children.' Mr. Doane Robinson, who supplies the above information, adds that 'the plate is in a very fine state of preservation, very little the worse for its one hundred and seventy years' exposure in this region.' The text of the inscriptions on either side of the plate has been given in the Introduction.

Fort de la Reine
Fort of the Queen
Fort la Reine
near Winnipeg, Manitoba
in Canada

Fort Pierre, South Dakota

30 March 1743
Verendrye Plate

souhaité de prendre hauteur à cet endroit ; mais notre astrolabe étoit, depuis le commencement de notre voyage, hors d'étât de servir, l'anneau en étant cassé.

Nous voyant, au mois d'Avril, sans nouvelles de notre François, étant pressé par les guides que j'avois loués pour nous conduire aux Mantanes, et nos chevaux en bon état, je me préparai à partir et fit plusieurs présens aux chefs de la nation, qui nous avoient toujours bien gardés et bien traités chez eux, ainsi qu'à plusieurs autres des plus considérables de nos bons amis.

Je recommandai aux chefs que si, par hasard, le François à qui j'avois écrit, venoit à leur fort, peu de temps après notre départ, il pouvoit venir nous trouver aux Mantanes, comptant y faire quelque séjour. J'aurois été flatté de le retirer d'avec les Sauvages. J'assurai le chef de la nation que j'aurois un très grand soin des trois jeunes gens qu'il nous donnoit pour nous guider, et que, quoique les Man-

to take the latitude of that place ; but our astrolabe had not been of any use from the beginning of our journey, the ring of it being broken.

Seeing ourselves, April having arrived, without news of our Frenchman, and being pressed by the guides I had hired to take us to the country of the Mandan, and our horses being in good condition, I prepared to leave and made several presents to the chiefs of the tribe, who had not ceased to take good care of us and treat us well, and also to some of the most important of our good friends.

I left word with the chiefs that if by chance the Frenchman to whom I had written came to their fort shortly after our departure, he might come and see us among the Mandan, as we intended to make some stay there. I should have been pleased to get him away from the savages. I assured the chief of the tribe that I should take very special care of the three youths he was letting us have as guides, and that,

tanes fussent leurs ennemis, ils n'avoient rien à craindre étant avec nous.

Nous partîmes le 2 Avril, bien regrettés de toute la nation. Ils nous firent de grandes instances pour revenir les voir.

Le 9, nous rencontrâmes sur le midy, un village de vingt cinq cabanes des Gens de la Flèche collée, autrement dits Sioux des Prairies. Nous passâmes parmi les femmes et équipages. Nous arrêtâmes très peu. Ils nous firent tous amitié et nous montrèrent l'endroit où ils alloient camper.

Nous nous mîmes à la vue de leur village, espérant qu'il en viendrait quelques-uns nous trouver, nous tenant toujours bien sur nos gardes. Il ne vint personne.

Le lendemain, nous poursuivîmes notre route, tantôt Nord-Nord-Est et Nord-Ouest jusqu'aux Mantanes, sans rien rencontrer. Nous y arrivâmes le 18 May. Je renvoyai nos guides après les avoir bien satisfaits.

although the Mandan were their enemies, there would be nothing to fear when they were with us.

We left on the second of April, much regretted by the whole tribe ; they begged us earnestly to come again and see them.

On the 9th we came across a village to the south of twenty-five lodges of the Gens de la Flèche Collée, otherwise known as the Prairie Sioux. We passed among the women and the baggage, but hardly stopped at all. They were quite friendly and showed us the place where they meant to camp. We took up our position in view of their village, hoping that some of them would come and see us, and keeping constantly on our guard, but no one came.

The next day we resumed our journey, sometimes north-north-east and sometimes north-west, till we came to the Mandan without meeting anything. We arrived there on the 18th of May. I sent back our guides after having fully satisfied them.

Gens de la Fleche Collee
Prairie Sioux

Nous avions dessein de demeurer quinze ou vingt jours à nous reposer et remettre nos chevaux en bon état ; mais, le 26, j'appris qu'il y avoit des Assiniboels au fort de la Butte, qui devoient partir pour le fort la Reine ; nous apprêtâmes promptement pour profiter de leur occasion et nous mettre, par là, à couvert des dangers des ennemis. Nous passâmes au fort la Butte le 27 au matin ; les Assiniboels venoient d'en partir. Nous ne leur avions pas fait savoir que nous voulions aller avec eux. Il se présenta deux Mantanes pour venir voir mon père et apprendre le chemin de notre fort. Nous pressâmes un peu la marche et nous joignîmes les Assiniboels à leur campement ; ils étoient plus de cent. Nous continuâmes notre route ensemble.

Le 31, nos découvreurs aperçurent trente Sioux embusqués sur notre chemin. Nous donnâmes tous ensemble. Ils

26 May 1743

It had been our intention to remain fifteen or twenty days to rest and get our horses in good condition ; but on the 26th I learnt that there were some Assiniboin at fort La Butte¹ who were to leave for fort La Reine. We made ready in haste in order to profit by this chance and by so doing to secure protection against enemies. We passed by fort La Butte on the morning of the 27th, but the Assiniboin had just left. We had not let them know that we wanted to go with them. Two Mandan came forward who wanted to go and see my father and learn the road to our fort. We hastened our march somewhat and caught up with the Assiniboin at their encampment. There were over a hundred of them and we continued our route together.

Fort of the Butte or Mound

Fort of the Queen

27 May 1743

31 May 1743

On the 31st our scouts perceived thirty Sioux in ambush on our road. We all went at them together. They were

¹ A rendezvous of the Assiniboin, probably the Maison du Chien, or Dog Den butte, described by Elliott Coues as 'a conspicuous elevation on the edge of the Coteau du Missouri . . . a landmark for shaping one's direct course between Mouse river and the Missouri.'

furent fort surpris de voir tant de monde et se retirèrent en bon ordre, faisant face, de temps en temps, à ceux qui les approchoient un peu trop. Ils sçavoient bien à qui ils avoient affaire, connaissant les Assiniboels pour des lâches. Sitôt qu'ils nous aperçurent tous montés sur nos chevaux et que nous étions des François, ils se sauvèrent à grande hâte, ne regardant plus derrière eux. Nous n'avons eu personne de tué, mais plusieurs blessés. Nous ne sçavons pas ce qu'ils ont perdu de monde, sinon un homme qui se trouva parmi nous.

Nous nous rendîmes au village près de la montagne le 2 juin. Comme nos chevaux étoient fatigués, nous restâmes à marcher avec le village jusqu'au vingt. Nous prîmes un guide pour nous conduire au fort la Reine, où nous sommes arrivés, le 2 Juillet, au grand contentement de mon père, qui étoit très inquiet de nous, n'ayant pas été possible de lui donner de nos nouvelles depuis notre départ, et à notre

greatly surprised to see so many people, and retired in good order, turning round and facing from time to time those who came too near them. They knew what kind of men they had to do with, for they knew the Assiniboin to be cowards. As soon as they perceived us, however, all mounted on our horses, and recognized us as Frenchmen, they ran off in great haste, never looking back. We had none killed, but several were wounded. We do not know what their losses were except that one of their men got amongst ours [and was captured].

2 June 1743

We reached the village near the mountain on the 2nd of June. As our horses were tired we suspended our journey and remained in the village till the 20th. We then took a guide to conduct us to fort La Reine, at which we arrived on the 2nd of July, to the great delight of my father, who was very anxious about us, as we had had no chance of giving him any news of ourselves from the time of our departure—

grande satisfaction, nous voyant hors de peines, de périls et dangers.

[*Lettre de Monsieur de la Verendrye*]

[à Québec le 31 8bre 1744.]

31 October 1744

Monseigneur

Les discours peu favorables ainsi que ce que la jalousie a pû insinuer d'être mandé à Votre Grandeur à l'occasion de l'entreprise que j'ai suivie depuis 1731 pour parvenir à la découverte de la Mer de l'Ouest et dont j'ay été informé, rendent le zèle dont j'ai toujours été animé pour le service et particulièrement pour cette découverte, d'autant plus sensible au ridicule que l'on m'y donne que l'on n'y attaque pas moins la pûreté des motifs qui faisoient seuls l'objet de mon entreprise et pour lequel toutes mes vues réfléchissoient entièrement, je ne puis attribuer d'ailleurs, Monseigneur,

also to our own great satisfaction at seeing ourselves delivered from troubles, perils, and dangers.

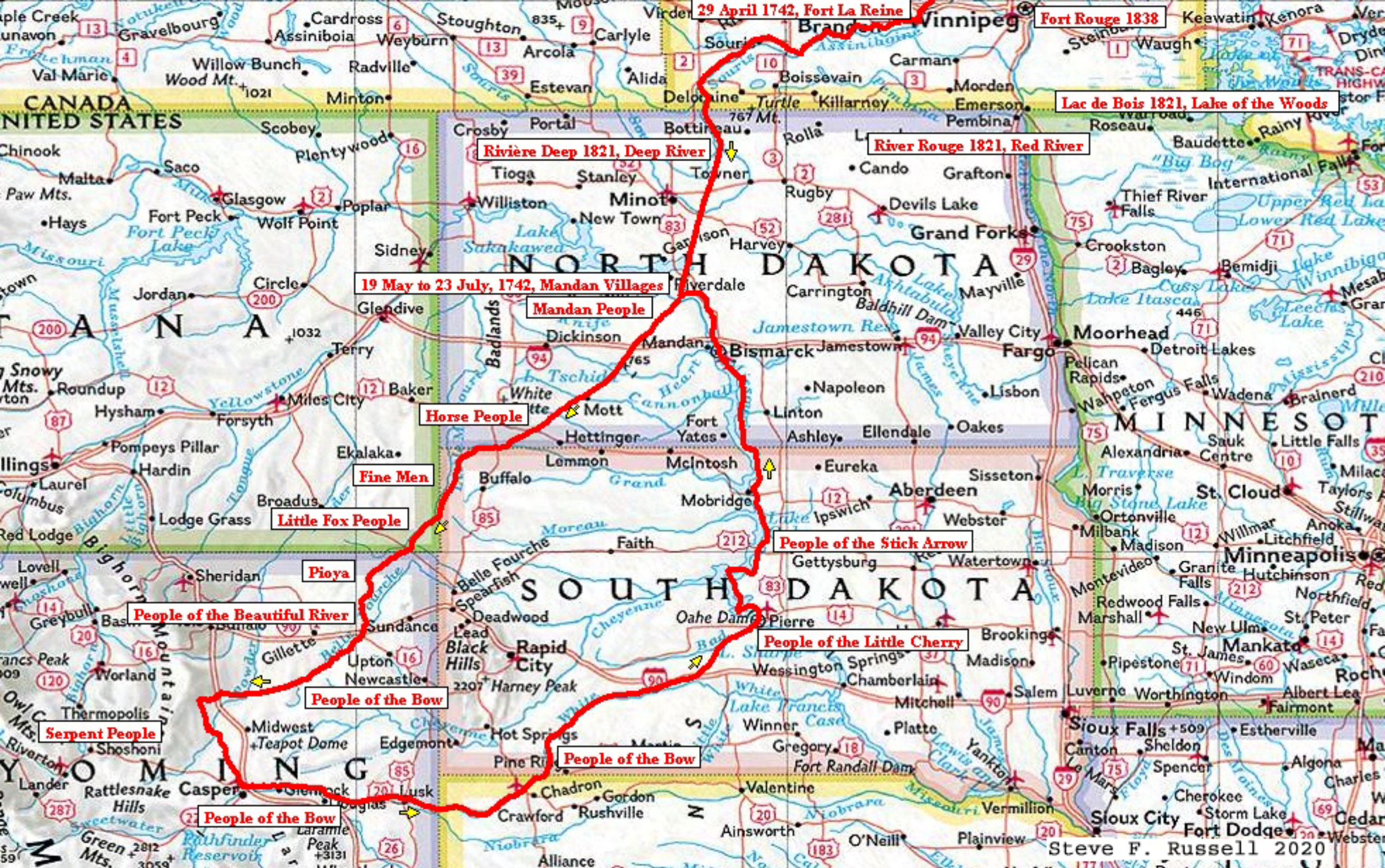
La Vérendrye to Maurepas.

Quebec, October 31, 1744.

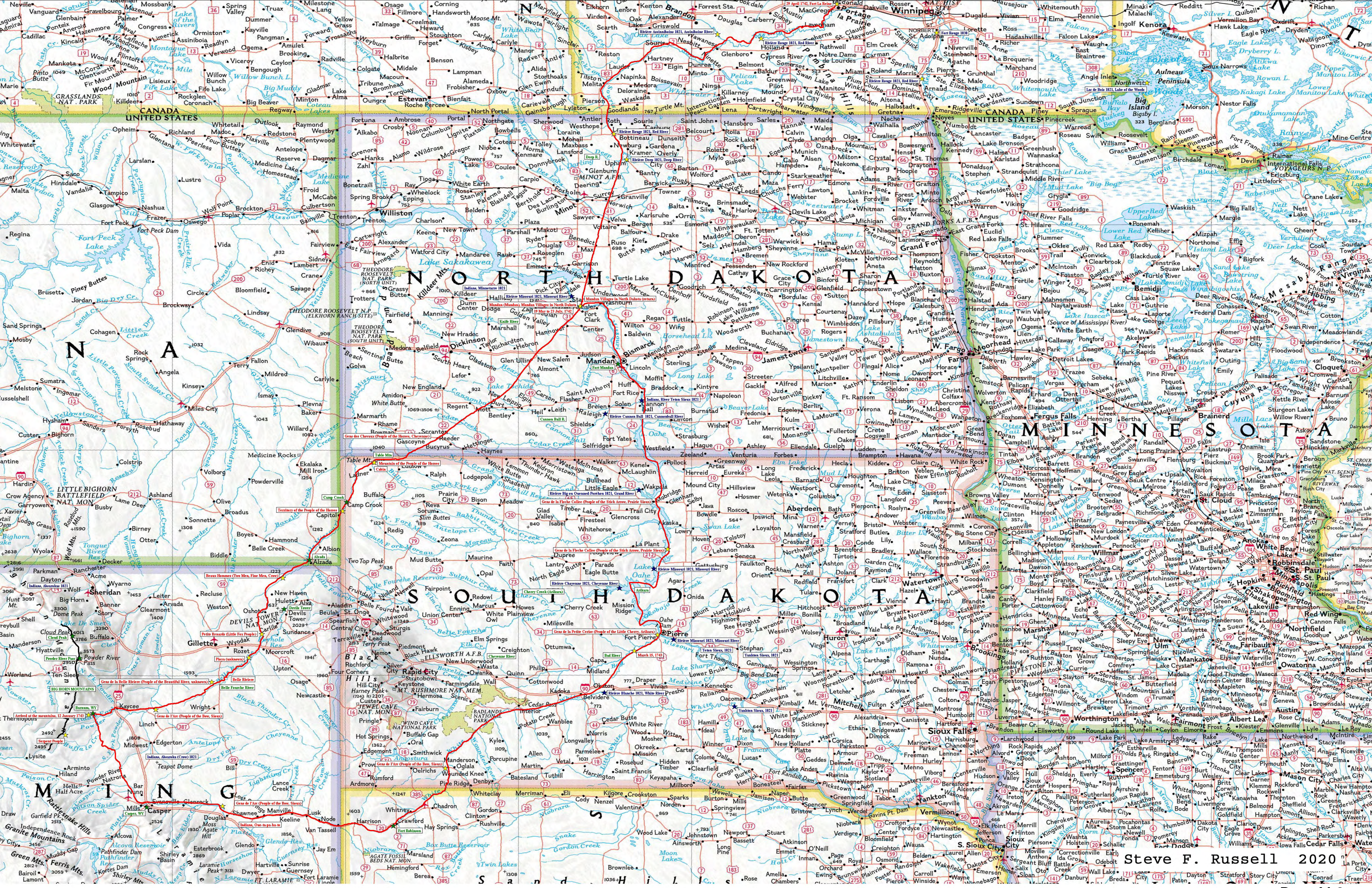
Monseigneur,

The unfavourable remarks and jealous insinuations that have reached Your Highness, as I have learnt, respecting the enterprise which I have pursued since 1731 for the discovery of the Western Sea, render the zeal by which I have always been animated for the King's service, and especially for that discovery, all the more a matter of ridicule from the fact that the purity of the motives which alone governed me in attempting that enterprise, and which entirely influenced all my views, has been attacked. I cannot, Monseigneur, attribute to any other cause than the calumnies that have

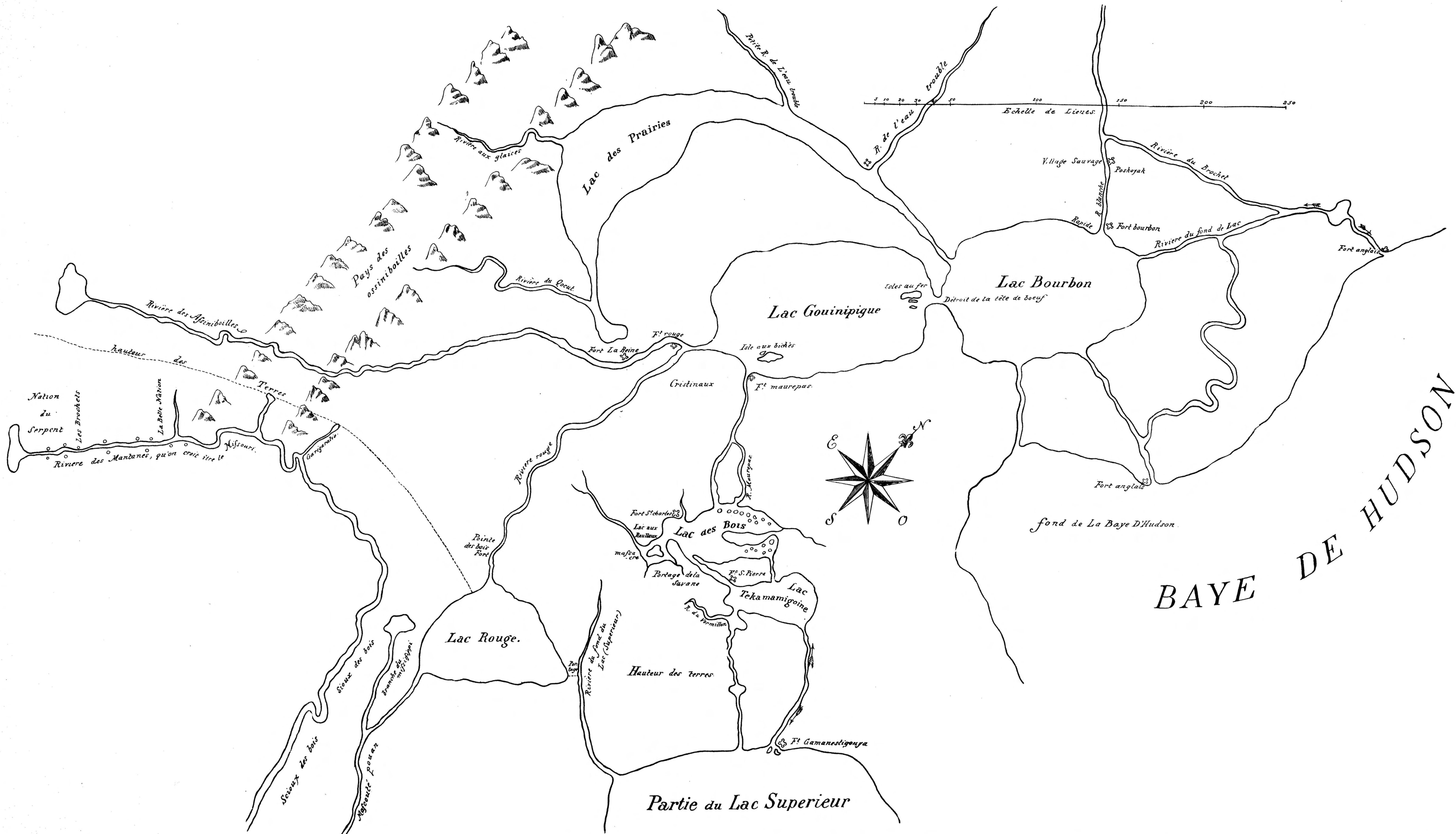
Appendix D.
Maps of the Verendrye Expedition Route



Map M1. Large Scale Map of the Verendrye Expedition, 1742-1743
In Search of the Western Sea (Pacific Ocean)

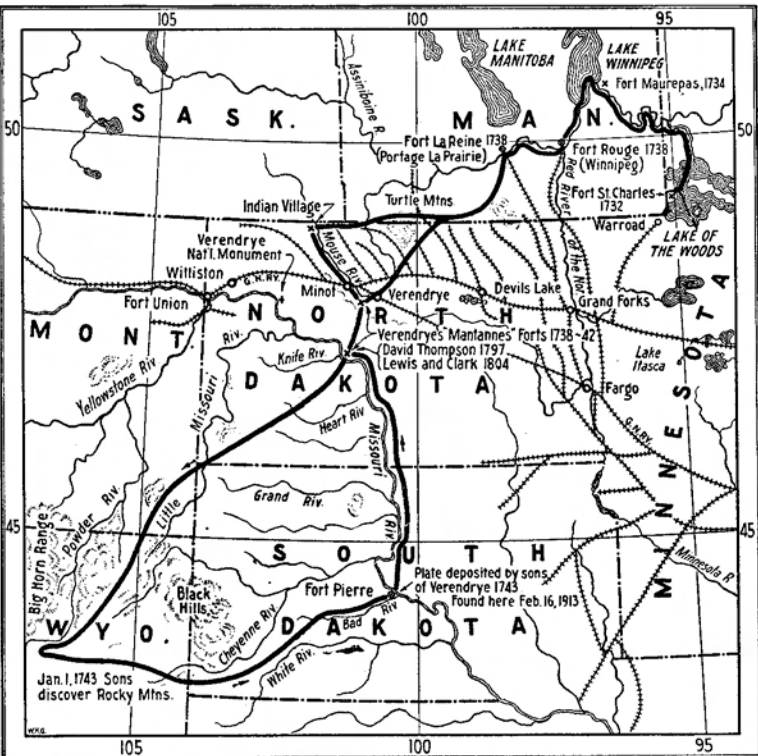


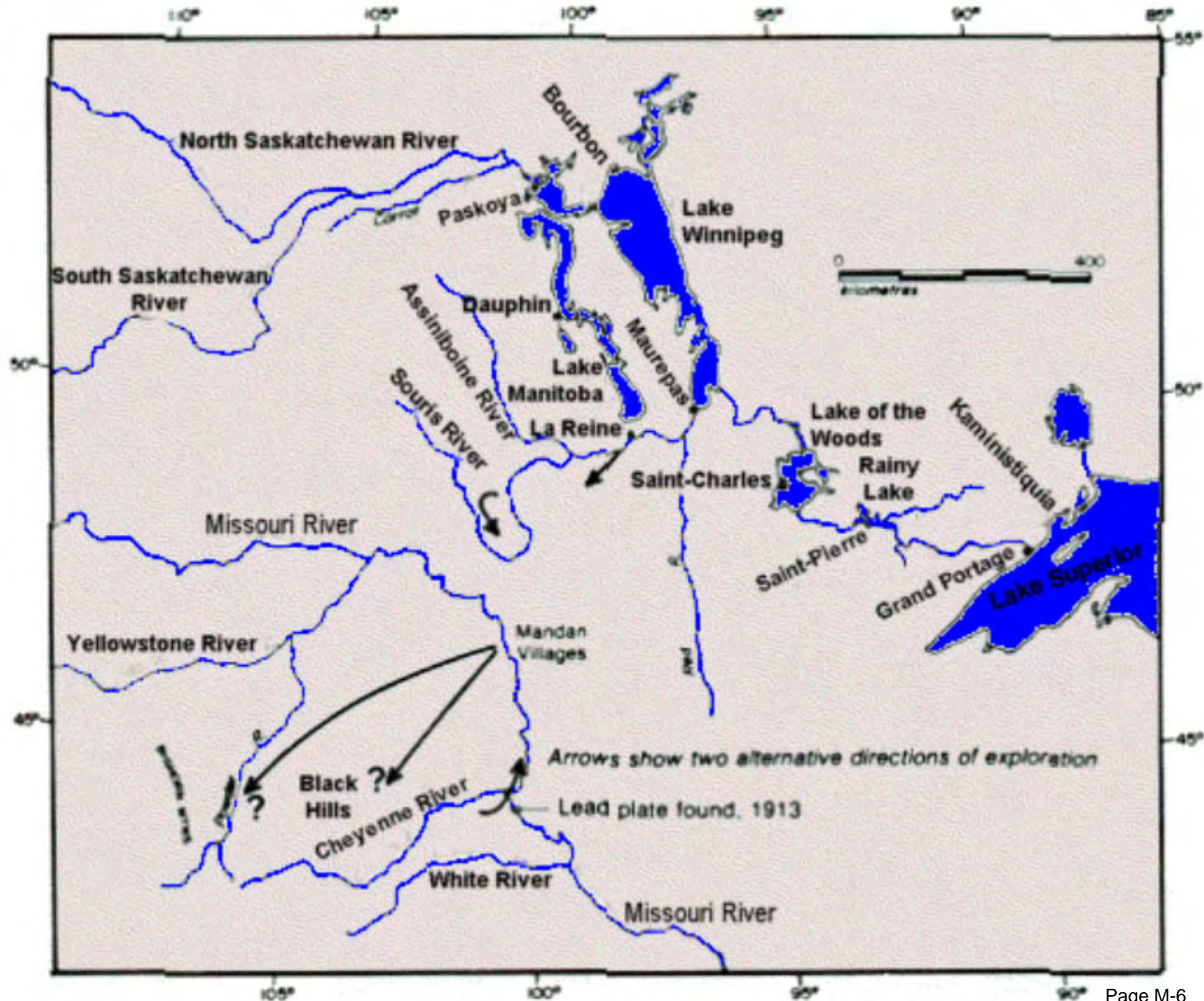
Map M2. Detailed Map of the Verendrye Expedition, 1742-1743 In Search of the Western Sea (Pacific Ocean)

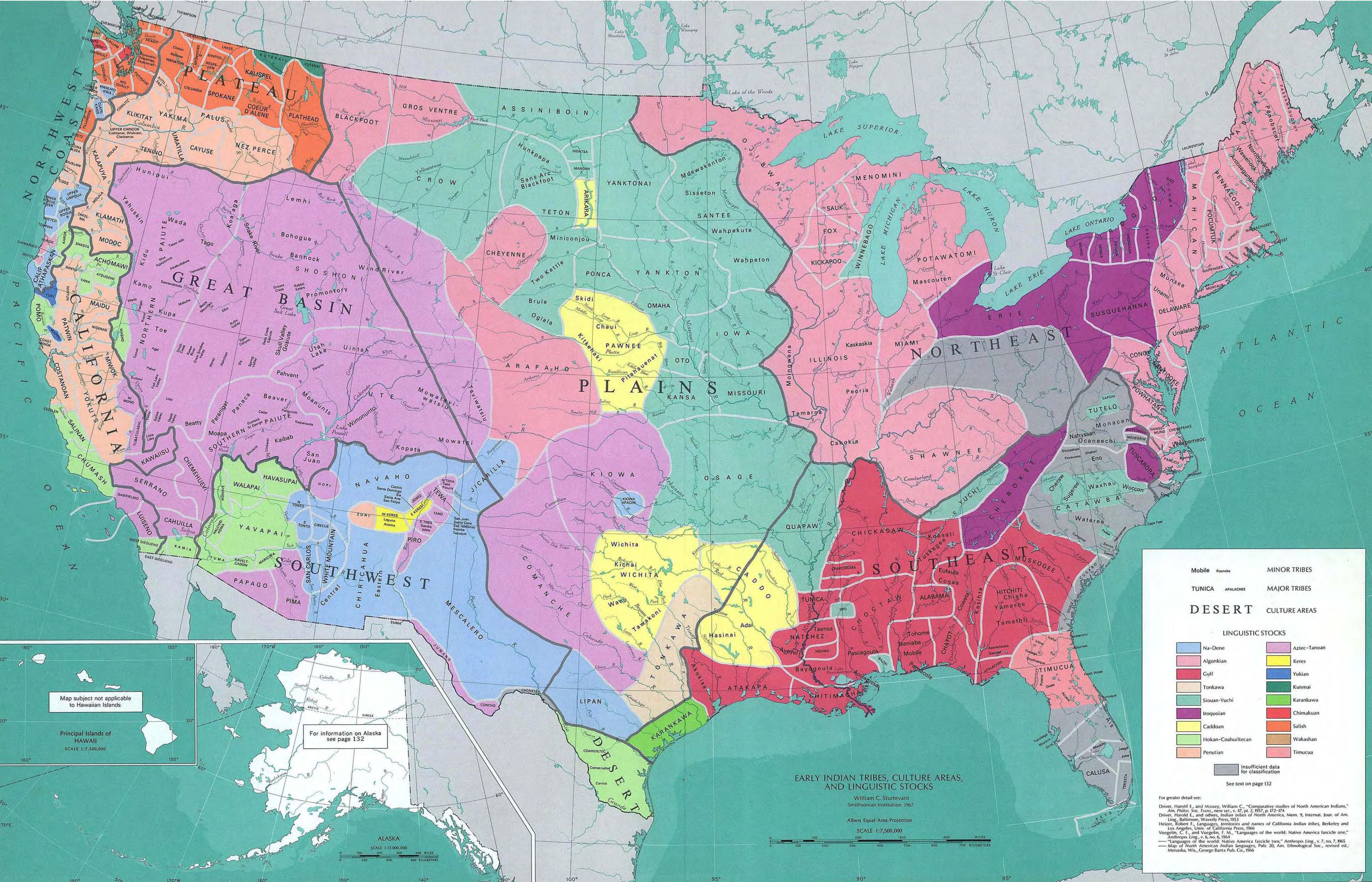




MAP OF THE WESTERN PART OF THE UNITED STATES,
Drawn to document the discoveries of Americans in that area; in particular, those of Messrs. Hunt and Stuart,
made in 1811, 1812, and 1813, by Chevalier Lapie, Geographer. Annals of the New Voyages, Volume XII, Page 21, Paris 1821.







Historical Map of the United States - Early Indian Tribes, Culture Areas, and Linguistic Stocks. William C. Sturtevant, Smithsonian Institution, 1967
 The University of Texas at Austin. From the National Atlas of the United States of America (1970)
http://www.emersonkent.com/map_archive/united_states_indian_tribes.htm